

IES Indoor Report

Photometric Filename:MD18-13-XX-01 3000K RA80 24D.IES

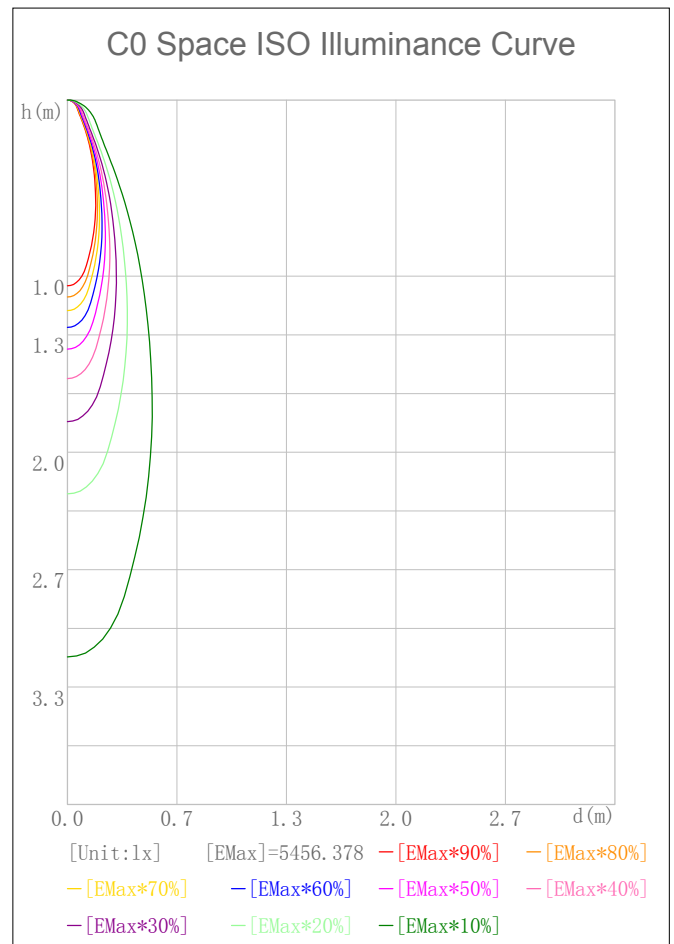
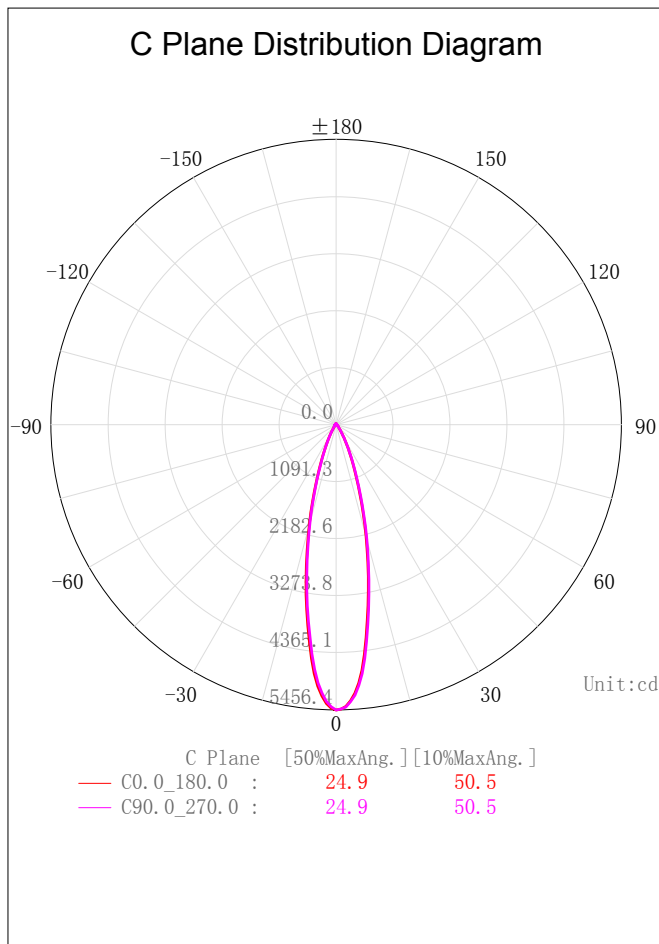
Indoor Luminaire Photometric Data

Description Information

Luminary Name: MD18-13-XX-01 3000K RA80 24D		Lum. Catalog:	Test ID: 01
Lamp Name:		Lamp Catalog: LED	Test Date: 2019/12/18
Manufacture: Shenzhen Norming Lighting Co., Ltd		Shld. Ang(°):	Test Machine:GON-2000
Test Lab: QUality peatment		Frequency (Hz):	Lamp CCT(K): Ra:
Lum. Size (W*L*H): 0.050m*0.050m*0.750m		Lum. Area (m2): 0.040	Lum. W(kg): 0.000
Test System: C, γ	Test Step: C=90.0 γ=1.0	Temp. (°C): 25	Humidity(%): 50.0

Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 1545.550	Luminary Flux(lm): 1545.554	Field Angle(10%Imax): 50.5(°)	
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 1483.990lm 96.02%	
Rated Voltage(V):	Luminary EER(lm/W): 123.942	Up Lumens&Percent: 61.564lm 3.98%	
Tested Power(W): 12.470	Max. Candela(cd): 5456.378	S/MH: C0_a180=0.418 C90_270=0.417	
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct	
Tested Electrics (V, A, pf): 240.4, 0.054, 0.951	Beam Angle (50%Imax): 24.9(°)	ErP φ use(90°): 1381.129lm	
Lamp Size (W*L*H): 0.050m*0.050m*0.750m	Left=-12.0°, Right=12.9°	IRF(%): 774.178	



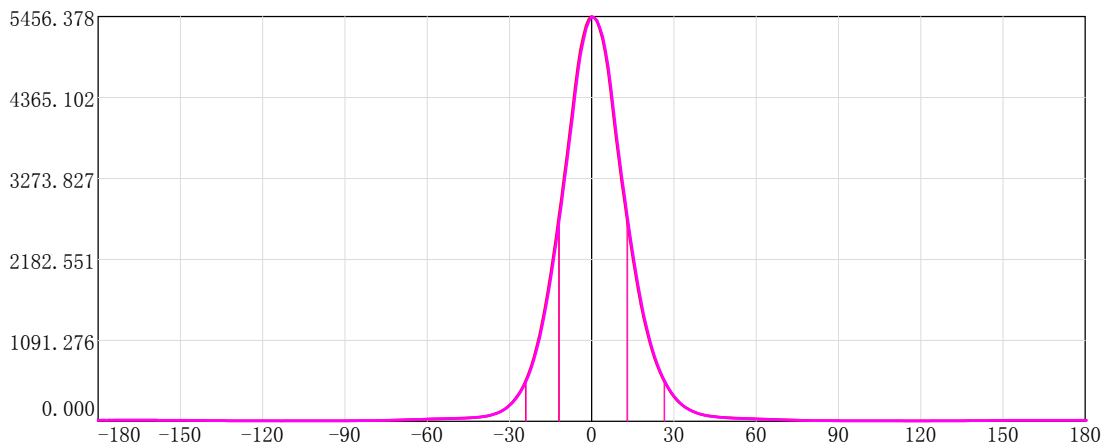
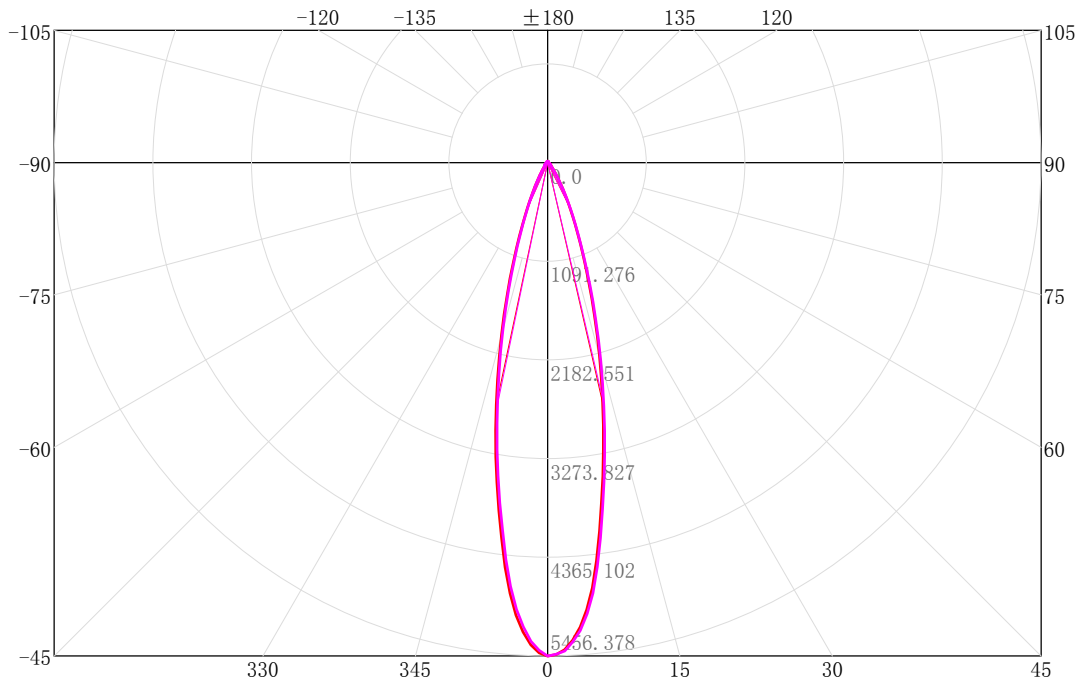
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2D Plane Light Intensity Distribution Curve

Lum. Name: MD18-13-XX-01 3000K RA80 24D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality peatment
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2019/12/18

C Plane Distribution Diagram



C Plane [50%MaxAng.] [10%MaxAng.] Unit:cd
 — C0.0_180.0 : 24.9 50.5
 — C90.0_270.0 : 24.9 50.5

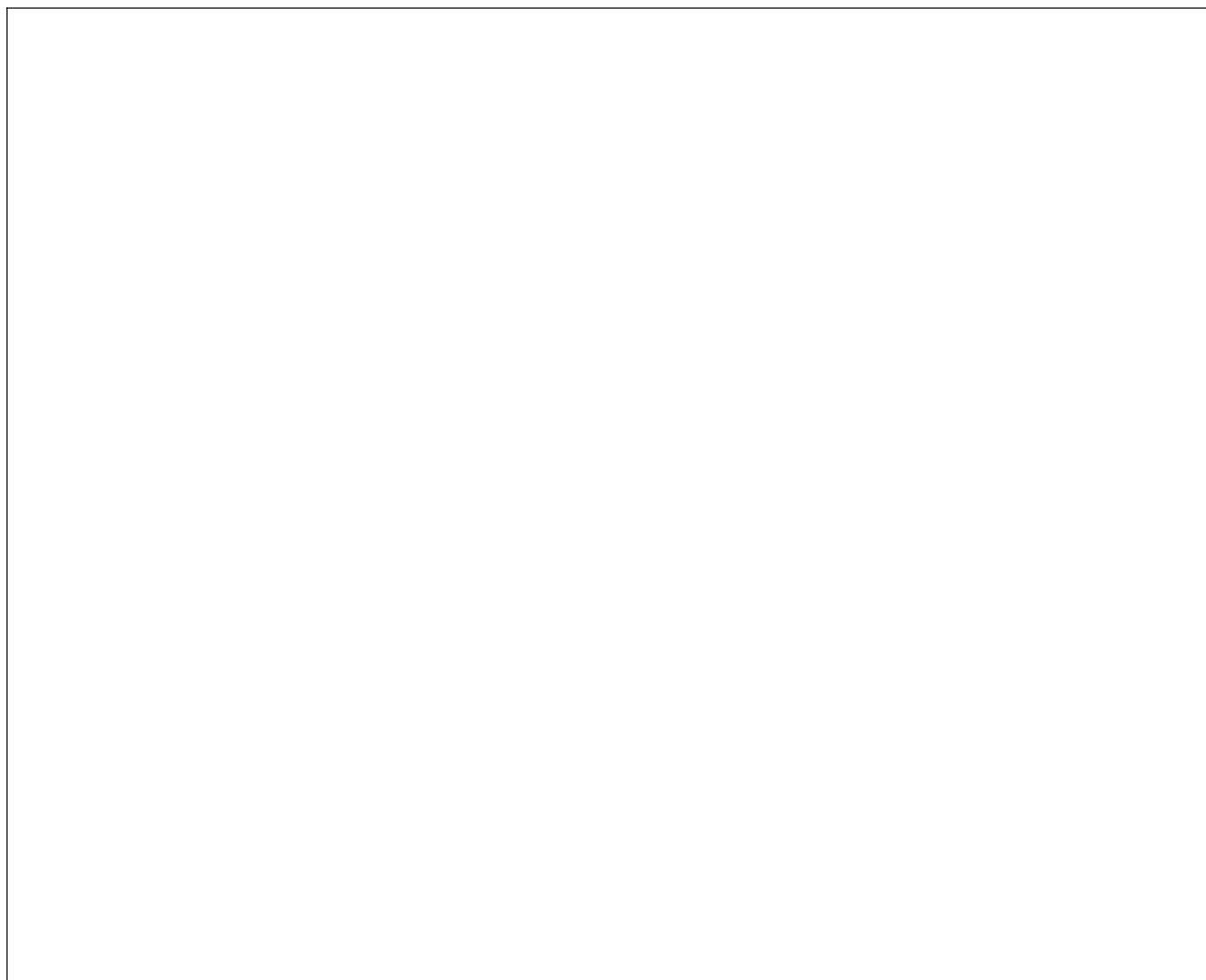
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3D Light Intensity Distribution Modal

Lum. Name: MD18-13-XX-01 3000K RA80 24D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality peatment
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2019/12/18

3D Light Intensity Distribution Modal



Curves: 3D Model —— Fixture —— Vert. HUD —— Hori. HUD ——
View Angles: Orient:0 Tilt:0 Roll:0 Spin:0

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Zonal Flux Tabulation

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-1.0	5.21	5.21	0.34	0.34	47.0-48.0	3.97	1388.38	0.26	89.83
1.0-2.0	15.47	20.68	1.00	1.34	48.0-49.0	3.87	1392.25	0.25	90.08
2.0-3.0	25.32	46.00	1.64	2.98	49.0-50.0	3.78	1396.04	0.24	90.33
3.0-4.0	34.50	80.50	2.23	5.21	50.0-51.0	3.71	1399.74	0.24	90.57
4.0-5.0	42.75	123.25	2.77	7.97	51.0-52.0	3.64	1403.38	0.24	90.80
5.0-6.0	49.76	173.02	3.22	11.19	52.0-53.0	3.58	1406.96	0.23	91.03
6.0-7.0	55.30	228.32	3.58	14.77	53.0-54.0	3.52	1410.49	0.23	91.26
7.0-8.0	59.40	287.72	3.84	18.62	54.0-55.0	3.46	1413.95	0.22	91.49
8.0-9.0	62.31	350.03	4.03	22.65	55.0-56.0	3.40	1417.35	0.22	91.70
9.0-10.0	64.26	414.29	4.16	26.81	56.0-57.0	3.34	1420.68	0.22	91.92
10.0-11.0	65.24	479.53	4.22	31.03	57.0-58.0	3.27	1423.95	0.21	92.13
11.0-12.0	65.23	544.76	4.22	35.25	58.0-59.0	3.19	1427.14	0.21	92.34
12.0-13.0	64.40	609.16	4.17	39.41	59.0-60.0	3.12	1430.26	0.20	92.54
13.0-14.0	62.83	671.99	4.07	43.48	60.0-61.0	3.03	1433.29	0.20	92.74
14.0-15.0	60.67	732.67	3.93	47.40	61.0-62.0	2.94	1436.24	0.19	92.93
15.0-16.0	57.97	790.63	3.75	51.16	62.0-63.0	2.85	1439.09	0.18	93.11
16.0-17.0	54.82	845.46	3.55	54.70	63.0-64.0	2.76	1441.85	0.18	93.29
17.0-18.0	51.36	896.82	3.32	58.03	64.0-65.0	2.66	1444.51	0.17	93.46
18.0-19.0	47.71	944.54	3.09	61.11	65.0-66.0	2.57	1447.08	0.17	93.63
19.0-20.0	44.01	988.54	2.85	63.96	66.0-67.0	2.47	1449.55	0.16	93.79
20.0-21.0	40.38	1028.92	2.61	66.57	67.0-68.0	2.38	1451.93	0.15	93.94
21.0-22.0	36.88	1065.80	2.39	68.96	68.0-69.0	2.28	1454.21	0.15	94.09
22.0-23.0	33.60	1099.40	2.17	71.13	69.0-70.0	2.18	1456.39	0.14	94.23
23.0-24.0	30.54	1129.94	1.98	73.11	70.0-71.0	2.09	1458.48	0.14	94.37
24.0-25.0	27.67	1157.61	1.79	74.90	71.0-72.0	1.99	1460.47	0.13	94.49
25.0-26.0	24.99	1182.60	1.62	76.52	72.0-73.0	1.88	1462.35	0.12	94.62
26.0-27.0	22.50	1205.09	1.46	77.97	73.0-74.0	1.78	1464.13	0.11	94.73
27.0-28.0	20.17	1225.26	1.31	79.28	74.0-75.0	1.67	1465.80	0.11	94.84
28.0-29.0	18.03	1243.30	1.17	80.44	75.0-76.0	1.57	1467.36	0.10	94.94
29.0-30.0	16.09	1259.39	1.04	81.49	76.0-77.0	1.47	1468.83	0.09	95.04
30.0-31.0	14.34	1273.74	0.93	82.41	77.0-78.0	1.37	1470.20	0.09	95.12
31.0-32.0	12.78	1286.52	0.83	83.24	78.0-79.0	1.30	1471.49	0.08	95.21
32.0-33.0	11.41	1297.93	0.74	83.98	79.0-80.0	1.25	1472.75	0.08	95.29
33.0-34.0	10.21	1308.14	0.66	84.64	80.0-81.0	1.23	1473.98	0.08	95.37
34.0-35.0	9.17	1317.32	0.59	85.23	81.0-82.0	1.20	1475.18	0.08	95.45
35.0-36.0	8.27	1325.59	0.54	85.77	82.0-83.0	1.18	1476.36	0.08	95.52
36.0-37.0	7.49	1333.08	0.48	86.25	83.0-84.0	1.16	1477.52	0.07	95.60
37.0-38.0	6.83	1339.90	0.44	86.69	84.0-85.0	1.14	1478.65	0.07	95.67
38.0-39.0	6.26	1346.16	0.41	87.10	85.0-86.0	1.11	1479.77	0.07	95.74
39.0-40.0	5.78	1351.95	0.37	87.47	86.0-87.0	1.09	1480.85	0.07	95.81
40.0-41.0	5.39	1357.33	0.35	87.82	87.0-88.0	1.07	1481.92	0.07	95.88
41.0-42.0	5.06	1362.39	0.33	88.15	88.0-89.0	1.04	1482.96	0.07	95.95
42.0-43.0	4.78	1367.17	0.31	88.46	89.0-90.0	1.03	1483.99	0.07	96.02
43.0-44.0	4.56	1371.73	0.30	88.75	90.0-91.0	1.01	1485.00	0.07	96.08
44.0-45.0	4.37	1376.11	0.28	89.04	91.0-92.0	1.00	1486.00	0.06	96.15
45.0-46.0	4.22	1380.33	0.27	89.31	92.0-93.0	0.98	1486.98	0.06	96.21
46.0-47.0	4.09	1384.41	0.26	89.57	93.0-94.0	0.97	1487.95	0.06	96.27

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Zonal Flux Tabulation - (Cont.)

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
94.0-95.0	0.96	1488.91	0.06	96.34	141.0-142.0	0.80	1526.03	0.05	98.74
95.0-96.0	0.95	1489.86	0.06	96.40	142.0-143.0	0.80	1526.83	0.05	98.79
96.0-97.0	0.93	1490.79	0.06	96.46	143.0-144.0	0.80	1527.63	0.05	98.84
97.0-98.0	0.92	1491.71	0.06	96.52	144.0-145.0	0.80	1528.43	0.05	98.89
98.0-99.0	0.91	1492.62	0.06	96.58	145.0-146.0	0.80	1529.24	0.05	98.94
99.0-100.0	0.90	1493.52	0.06	96.63	146.0-147.0	0.80	1530.04	0.05	99.00
100.0-101.0	0.89	1494.41	0.06	96.69	147.0-148.0	0.80	1530.83	0.05	99.05
101.0-102.0	0.88	1495.30	0.06	96.75	148.0-149.0	0.79	1531.62	0.05	99.10
102.0-103.0	0.87	1496.17	0.06	96.80	149.0-150.0	0.78	1532.41	0.05	99.15
103.0-104.0	0.86	1497.03	0.06	96.86	150.0-151.0	0.77	1533.18	0.05	99.20
104.0-105.0	0.85	1497.88	0.06	96.92	151.0-152.0	0.76	1533.94	0.05	99.25
105.0-106.0	0.84	1498.72	0.05	96.97	152.0-153.0	0.75	1534.69	0.05	99.30
106.0-107.0	0.83	1499.56	0.05	97.02	153.0-154.0	0.74	1535.43	0.05	99.35
107.0-108.0	0.83	1500.38	0.05	97.08	154.0-155.0	0.72	1536.15	0.05	99.39
108.0-109.0	0.82	1501.20	0.05	97.13	155.0-156.0	0.70	1536.84	0.05	99.44
109.0-110.0	0.81	1502.01	0.05	97.18	156.0-157.0	0.68	1537.52	0.04	99.48
110.0-111.0	0.80	1502.81	0.05	97.23	157.0-158.0	0.66	1538.18	0.04	99.52
111.0-112.0	0.79	1503.60	0.05	97.29	158.0-159.0	0.64	1538.82	0.04	99.56
112.0-113.0	0.78	1504.39	0.05	97.34	159.0-160.0	0.61	1539.43	0.04	99.60
113.0-114.0	0.78	1505.17	0.05	97.39	160.0-161.0	0.59	1540.01	0.04	99.64
114.0-115.0	0.77	1505.94	0.05	97.44	161.0-162.0	0.56	1540.57	0.04	99.68
115.0-116.0	0.76	1506.70	0.05	97.49	162.0-163.0	0.53	1541.11	0.03	99.71
116.0-117.0	0.76	1507.45	0.05	97.54	163.0-164.0	0.50	1541.61	0.03	99.75
117.0-118.0	0.75	1508.21	0.05	97.58	164.0-165.0	0.48	1542.09	0.03	99.78
118.0-119.0	0.74	1508.95	0.05	97.63	165.0-166.0	0.45	1542.53	0.03	99.80
119.0-120.0	0.74	1509.68	0.05	97.68	166.0-167.0	0.42	1542.95	0.03	99.83
120.0-121.0	0.73	1510.42	0.05	97.73	167.0-168.0	0.39	1543.33	0.02	99.86
121.0-122.0	0.73	1511.15	0.05	97.77	168.0-169.0	0.35	1543.69	0.02	99.88
122.0-123.0	0.73	1511.87	0.05	97.82	169.0-170.0	0.32	1544.01	0.02	99.90
123.0-124.0	0.72	1512.60	0.05	97.87	170.0-171.0	0.29	1544.31	0.02	99.92
124.0-125.0	0.72	1513.32	0.05	97.91	171.0-172.0	0.26	1544.57	0.02	99.94
125.0-126.0	0.72	1514.04	0.05	97.96	172.0-173.0	0.23	1544.80	0.01	99.95
126.0-127.0	0.72	1514.76	0.05	98.01	173.0-174.0	0.20	1545.00	0.01	99.96
127.0-128.0	0.72	1515.48	0.05	98.05	174.0-175.0	0.17	1545.17	0.01	99.98
128.0-129.0	0.72	1516.20	0.05	98.10	175.0-176.0	0.14	1545.31	0.01	99.98
129.0-130.0	0.72	1516.92	0.05	98.15	176.0-177.0	0.11	1545.41	0.01	99.99
130.0-131.0	0.73	1517.65	0.05	98.19	177.0-178.0	0.08	1545.49	0.00	100.00
131.0-132.0	0.73	1518.38	0.05	98.24	178.0-179.0	0.05	1545.54	0.00	100.00
132.0-133.0	0.74	1519.12	0.05	98.29	179.0-180.0	0.02	1545.55	0.00	100.00
133.0-134.0	0.74	1519.86	0.05	98.34					
134.0-135.0	0.75	1520.60	0.05	98.39					
135.0-136.0	0.76	1521.36	0.05	98.43					
136.0-137.0	0.76	1522.12	0.05	98.48					
137.0-138.0	0.77	1522.89	0.05	98.53					
138.0-139.0	0.78	1523.67	0.05	98.58					
139.0-140.0	0.78	1524.45	0.05	98.63					
140.0-141.0	0.79	1525.24	0.05	98.69					

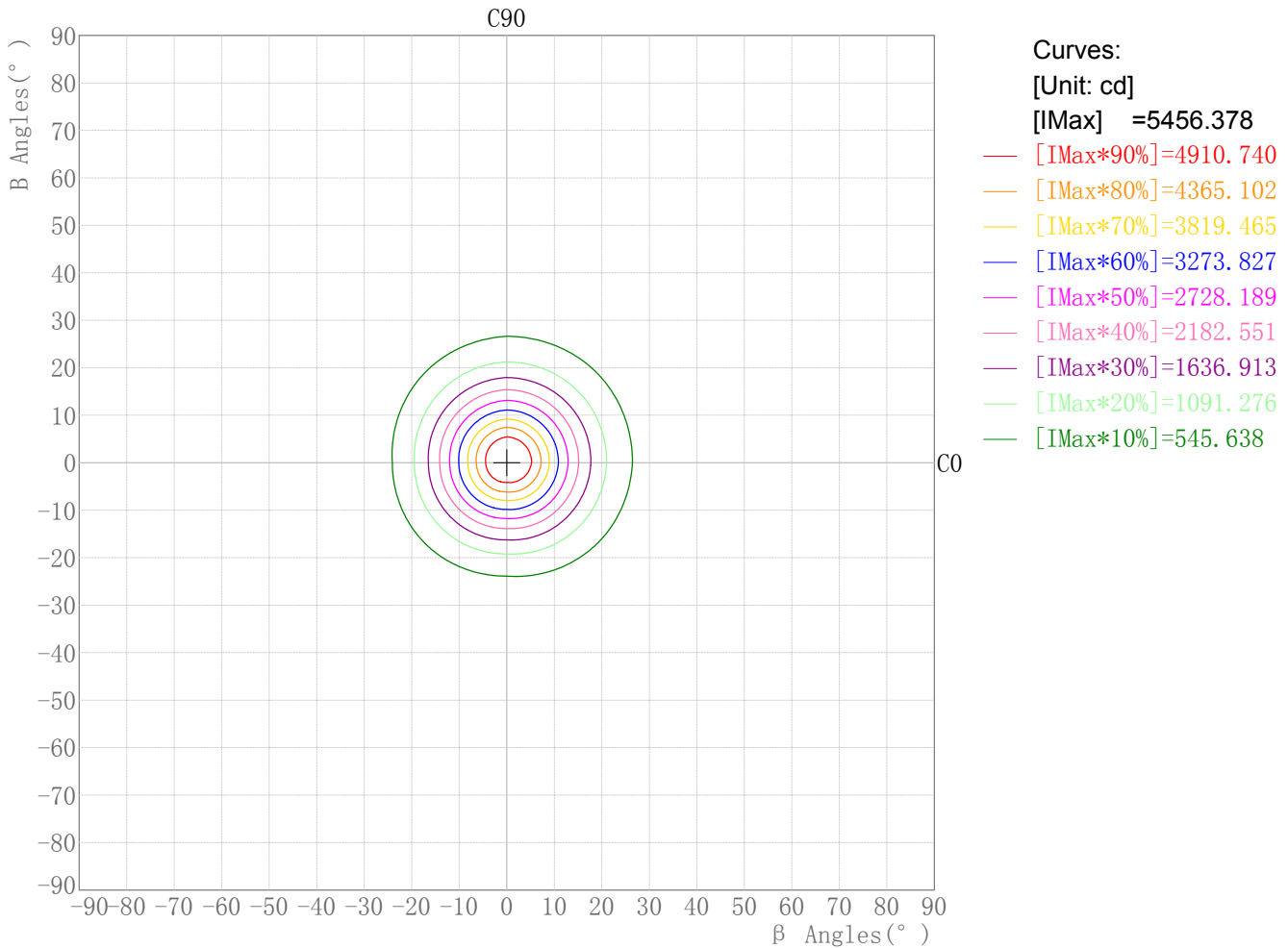
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Rectangle ISO Lighting Intensity Diagram

Lum. Name: MD18-13-XX-01 3000K RA80 24D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality peatment
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2019/12/18

ISO Lighting Intensity Curve



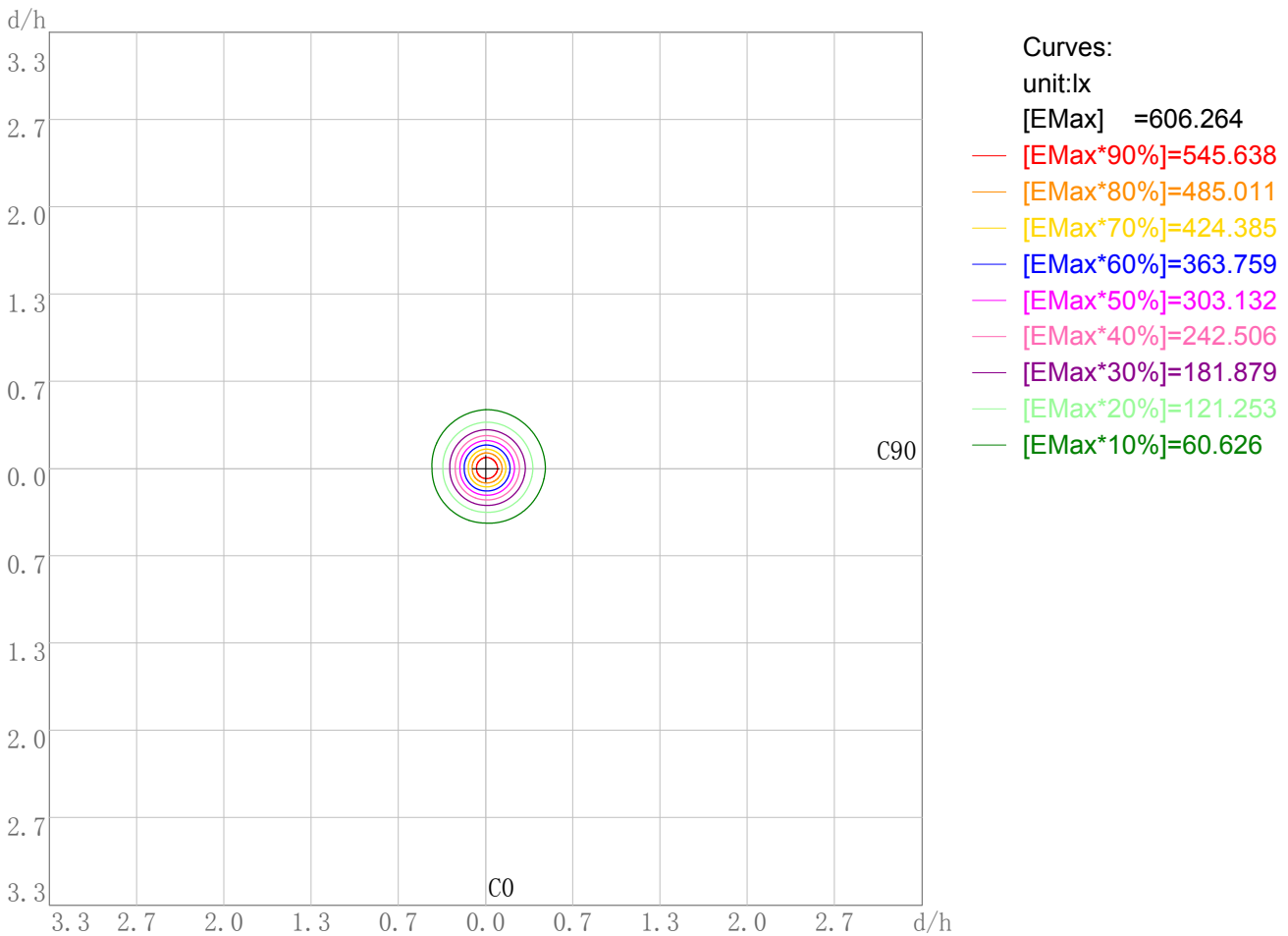
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Plane ISO-Illuminance Diagram

Lum. Name: MD18-13-XX-01 3000K RA80 24D	Lum. Catalog: LED	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality peatment
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2019/12/18

Plane ISO-Illuminance Curve



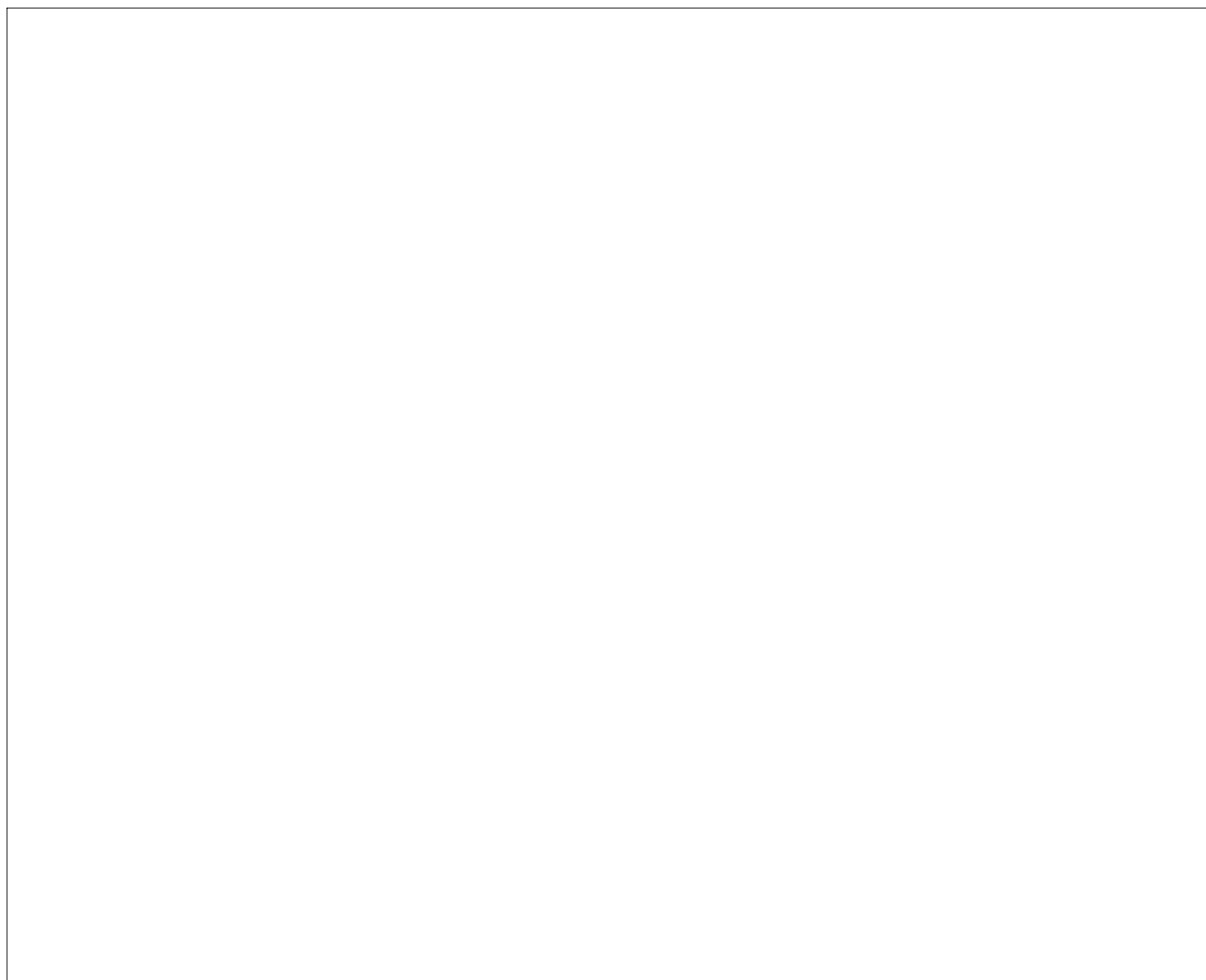
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3D Plane ISO Illuminance Diagram

Lum. Name: MD18-13-XX-01 3000K RA80 24D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality peatment
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2019/12/18

3D Plane Illuminance Modal



Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

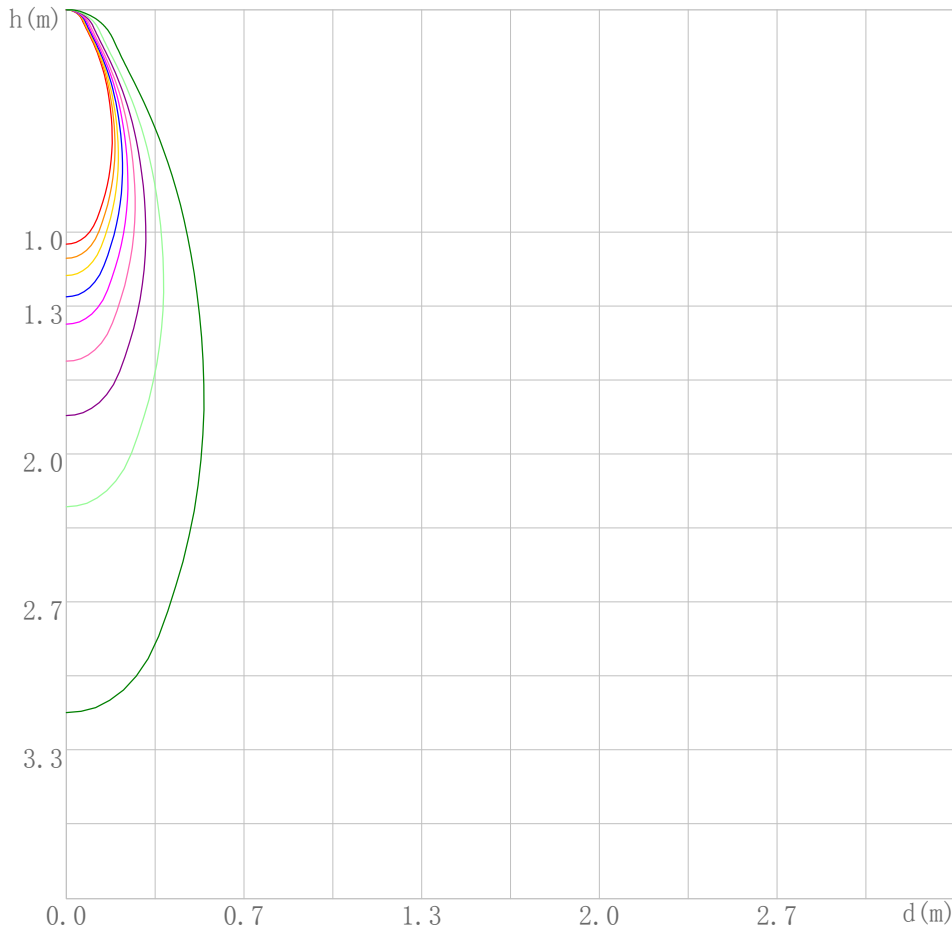
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Space ISO Illuminance Diagram

Lum. Name: MD18-13-XX-01 3000K RA80 24D	Lum. Catalog: LED	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality peatment
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2019/12/18

Space ISO Illuminance Curve



Curves:

[Unit: lx]

[EMax] =5456.378

— [EMax*90%]=4910.740

— [EMax*80%]=4365.102

— [EMax*70%]=3819.465

— [EMax*60%]=3273.827

— [EMax*50%]=2728.189

— [EMax*40%]=2182.551

— [EMax*30%]=1636.913

— [EMax*20%]=1091.276

— [EMax*10%]=545.638

Space Plane Maximum Illuminance and @Angle:5456.38lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:5456.378cd,0deg

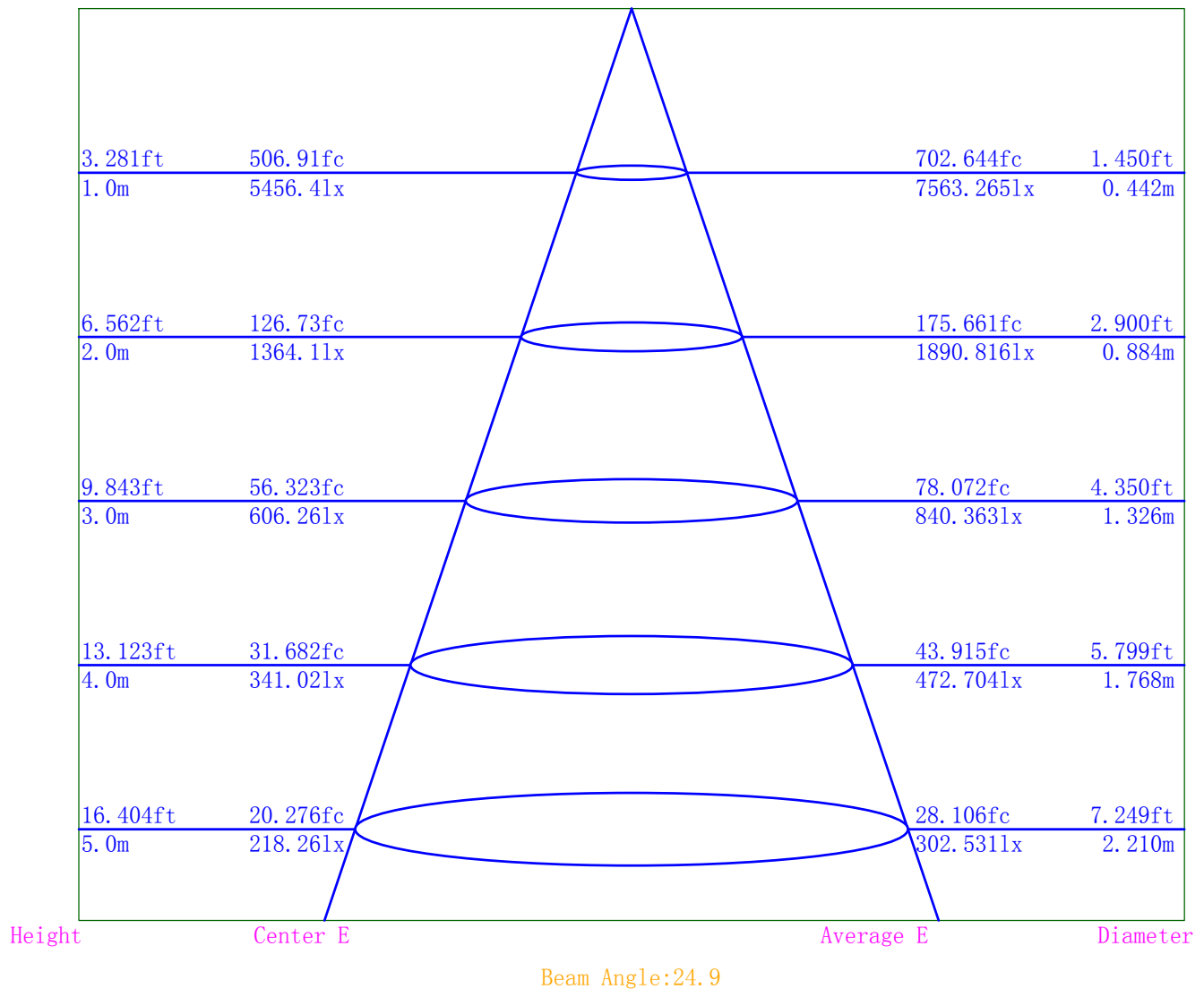
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Illuminance-Distance Diagram

Lum. Name: MD18-13-XX-01 3000K RA80 24D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality peatment
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2019/12/18

Illuminance-Distance Curve



IES Indoor Report

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Indoor Luminance Limiting Curves

Lum. Name: MD18-13-XX-01 3000K RA80 24D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality peatment
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2019/12/18

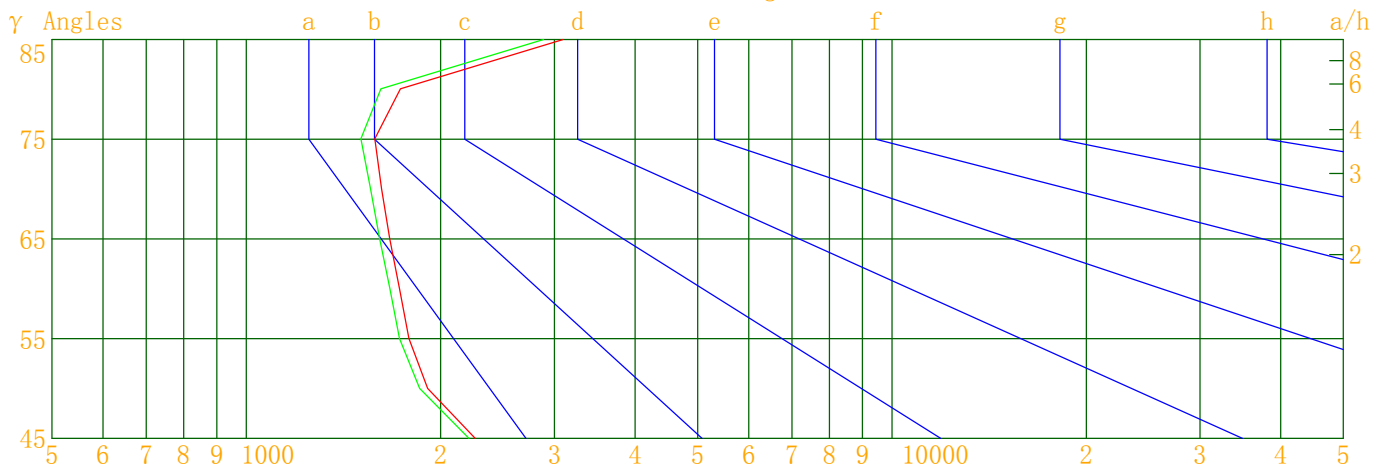
Glare Grade Table

GI	Quality	Using Illuminance							
		a	b	c	d	e	f	g	h
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E	a				2000	1000	500	<=300
			b	c	d	e	f	g	h

Luminance Table

Gama (deg)	45	50	55	60	65	70	75	80	85
C0	2261	1910	1786	1726	1667	1619	1582	1733	3095
C90	2212	1856	1726	1668	1609	1557	1505	1616	2887

Luminance Limiting Curve



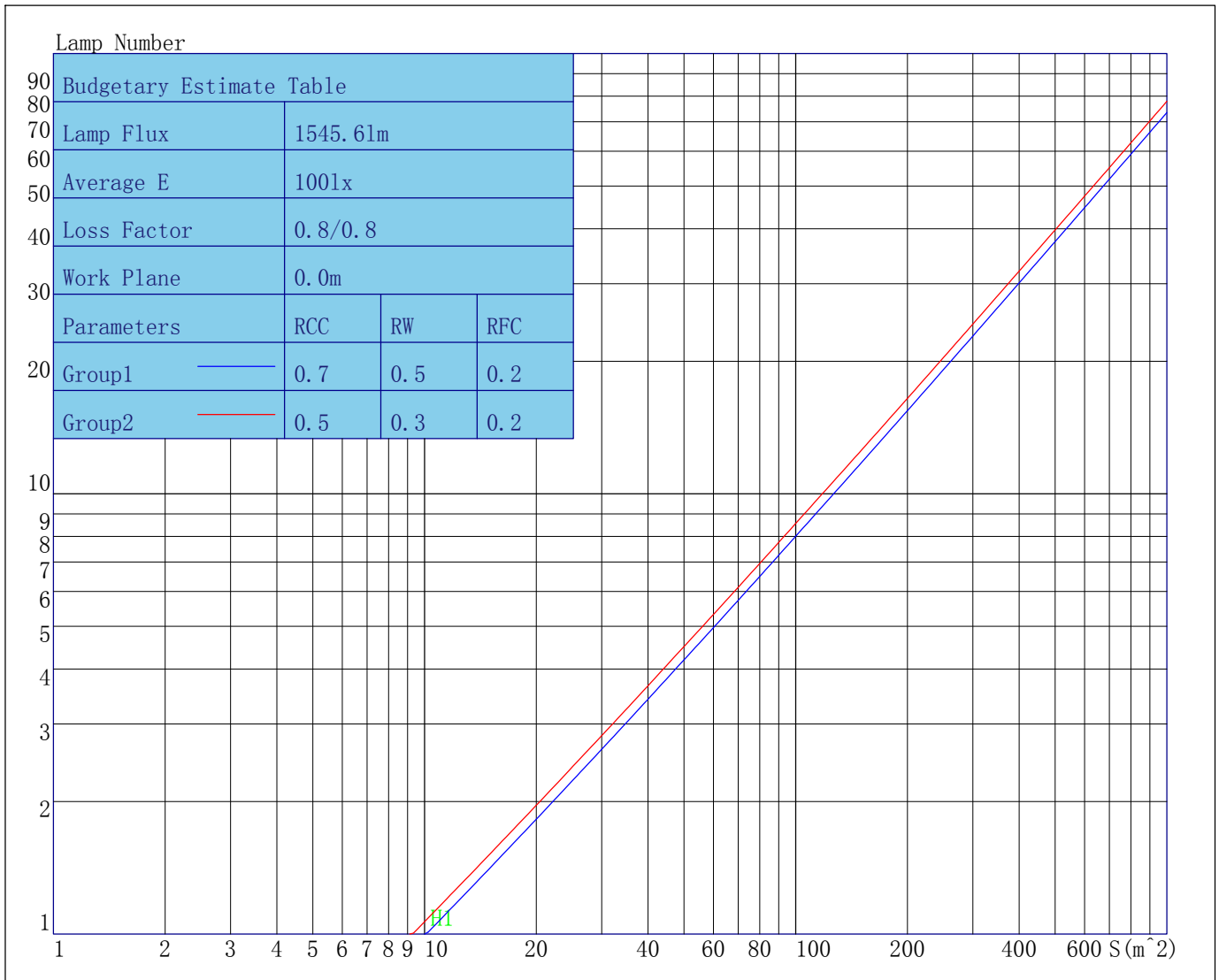
Luminous Size: Length(m)=0.050 Width(m)=0.050 Height(m)=0.750 Area(m²)=0.040000
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: ——— C90-C270 Color: ———

IES Indoor Report

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Indoor Budgetary Estimate Table

Lum. Name: MD18-13-XX-01 3000K RA80 24D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality peatment
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2019/12/18



Parameters1: Rhocc = 0.7 Rhow = 0.5 Rhofc = 0.2 LLF = 0.8
 Parameters2: Rhocc = 0.5 Rhow = 0.3 Rhofc = 0.2 LLF = 0.8
 Average Illuminance(lx): 100 Cavity Height: H1(m) = 2

IES Indoor Report

Photometric Filename:MD18-13-XX-01 3000K RA80 24D.IES

Indoor Coefficient of Utilization Table

Lum. Name: MD18-13-XX-01 3000K RA80 24D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality peatment
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2019/12/18

Coefficients of Utilization - Zonal Cavity Method																					
Coef.	Effective Floor Cavity Reflectance RFC=0.20																				
RhoCC (%)	80				70				50				30				10				0
RhoW (%)	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	Coefficient of Utilization (%)																				
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96			
1	113	110	108	106	110	108	105	103	103	101	100	98	97	96	94	93	92	90			
2	108	103	100	96	105	101	98	95	97	95	92	94	92	90	91	89	87	86			
3	103	98	93	90	101	96	92	89	93	89	87	90	87	85	87	85	83	81			
4	99	93	88	84	97	91	87	83	89	85	82	86	83	81	84	81	79	78			
5	95	88	83	79	94	87	82	79	85	81	78	83	79	77	81	78	76	74			
6	92	84	79	76	90	83	79	75	82	77	74	80	76	74	78	75	73	71			
7	89	81	76	72	87	80	75	72	78	74	71	77	73	71	76	72	70	69			
8	86	78	73	69	84	77	72	69	76	71	69	74	71	68	73	70	68	66			
9	83	75	70	67	82	74	70	66	73	69	66	72	68	66	71	68	65	64			
10	80	72	67	64	79	72	67	64	71	67	64	70	66	63	69	66	63	62			

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Unified Glare Rating Table

Lum. Name: MD18-13-XX-01 3000K RA80 24D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality peatment
Manufacture: Shenzhen Norming Lighting Co., Ltd	Test Machine:GON-2000	Test Date: 2019/12/18

Unified Glare Rating Table

Ceiling RCC	0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
Wall RW	0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
Floor RFC	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room Size	Vewed crosswise					Vewed endwise				
X=2H Y=2H	9.5	10.4	9.9	10.8	11.2	9.4	10.3	9.8	10.7	11.1
Y=3H	10.6	11.5	11.1	11.9	12.4	10.5	11.3	10.9	11.8	12.2
Y=4H	11.2	12.0	11.7	12.4	12.9	11.0	11.8	11.5	12.2	12.7
Y=6H	11.7	12.4	12.2	12.9	13.4	11.5	12.2	12.0	12.7	13.2
Y=8H	12.0	12.7	12.5	13.2	13.7	11.8	12.5	12.3	13.0	13.5
Y=12H	12.5	13.1	13.0	13.6	14.1	12.2	12.9	12.7	13.3	13.9
X=4H Y=2H	9.8	10.6	10.3	11.1	11.5	9.7	10.5	10.2	10.9	11.4
Y=3H	11.2	11.9	11.7	12.4	12.9	11.1	11.7	11.6	12.2	12.7
Y=4H	11.9	12.5	12.4	13.0	13.5	11.7	12.3	12.3	12.8	13.4
Y=6H	12.6	13.1	13.1	13.6	14.2	12.4	12.9	12.9	13.4	14.0
Y=8H	13.0	13.5	13.6	14.0	14.6	12.8	13.3	13.4	13.8	14.4
Y=12H	13.6	14.0	14.2	14.6	15.2	13.4	13.8	13.9	14.3	14.9
X=8H Y=4H	12.1	12.6	12.7	13.1	13.7	12.0	12.4	12.5	13.0	13.5
Y=6H	13.0	13.4	13.6	14.0	14.6	12.8	13.2	13.4	13.8	14.4
Y=8H	13.6	14.0	14.2	14.6	15.1	13.4	13.7	14.0	14.3	14.9
Y=12H	14.5	14.8	15.1	15.3	16.0	14.2	14.5	14.8	15.1	15.7
X=12H Y=4H	12.2	12.6	12.7	13.1	13.7	12.0	12.4	12.5	12.9	13.5
Y=6H	13.1	13.5	13.7	14.0	14.6	12.9	13.2	13.5	13.8	14.4
Y=8H	13.8	14.1	14.4	14.7	15.4	13.6	13.9	14.2	14.5	15.1
Variations with the objerver position at spacings										
S=1.0H	0.1/-0.1					0.2/-0.2				
S=1.5H	0.3/-0.3					0.4/-0.4				
S=2.0H	0.4/-0.4					0.5/-0.5				
Reduced UGR Table:										
Nordic Standard Table:	BKO					BKO				
Correction Value	3.3					3.2				

to the CIE Pub.117, data has been corrected, refers to the lamp's lumens 8.2flm.

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Candela Tabulation

V/H	C0.0	C90.0	C180.0	C270.0
γ 0.0	5456.38	5456.38	5456.38	5456.38
γ 1.0	5440.01	5436.70	5421.35	5394.15
γ 2.0	5389.73	5403.44	5334.93	5296.88
γ 3.0	5287.71	5305.62	5195.37	5140.02
γ 4.0	5149.03	5185.72	5015.54	4950.58
γ 5.0	4961.27	5006.57	4780.07	4701.92
γ 6.0	4728.87	4787.26	4498.90	4411.55
γ 7.0	4434.56	4506.15	4181.31	4088.37
γ 8.0	4114.58	4191.07	3883.38	3799.13
γ 9.0	3804.45	3876.01	3580.75	3504.58
γ 10.0	3520.46	3588.12	3305.19	3223.82
γ 11.0	3231.43	3301.72	3013.35	2934.60
γ 12.0	2964.39	3030.81	2734.67	2659.04
γ 13.0	2700.62	2760.53	2461.47	2393.52
γ 14.0	2450.23	2508.95	2211.82	2147.81
γ 15.0	2212.58	2270.57	1970.13	1906.18
γ 16.0	1990.29	2043.26	1743.88	1687.58
γ 17.0	1774.41	1824.54	1534.40	1483.19
γ 18.0	1579.42	1625.31	1343.50	1296.53
γ 19.0	1399.73	1439.10	1164.27	1122.24
γ 20.0	1238.63	1275.15	1006.78	971.65
γ 21.0	1092.49	1123.09	866.91	836.42
γ 22.0	963.43	989.51	746.86	721.32
γ 23.0	848.59	871.42	643.14	621.79
γ 24.0	747.46	767.76	553.00	535.12
γ 25.0	657.64	674.33	472.94	458.72
γ 26.0	578.19	592.77	405.32	394.34
γ 27.0	505.71	518.08	346.65	337.18
γ 28.0	441.50	451.64	296.75	289.08
γ 29.0	384.38	393.14	253.21	247.55
γ 30.0	335.01	341.83	216.77	212.52
γ 31.0	291.39	297.17	185.23	181.97
γ 32.0	254.07	258.19	159.45	157.21
γ 33.0	221.66	224.73	137.55	136.23
γ 34.0	194.28	196.64	119.65	119.05
γ 35.0	170.57	172.01	104.78	104.67
γ 36.0	150.26	151.08	92.63	93.03
γ 37.0	132.92	133.37	82.38	83.10
γ 38.0	118.30	118.28	74.32	75.25
γ 39.0	106.00	105.60	67.38	68.46
γ 40.0	95.58	94.96	62.03	63.22
γ 41.0	86.91	85.92	57.61	58.91
γ 42.0	79.60	78.41	54.01	55.35
γ 43.0	73.44	72.17	51.02	52.51
γ 44.0	68.35	67.04	48.68	50.14
γ 45.0	63.96	62.57	46.56	48.02
γ 46.0	60.10	58.85	45.01	46.37

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Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 47.0	56.82	55.46	43.47	44.86
γ 48.0	53.86	52.49	42.25	43.65
γ 49.0	51.33	49.92	41.04	42.43
γ 50.0	49.10	47.71	40.10	41.41
γ 51.0	47.08	45.65	39.12	40.40
γ 52.0	45.35	44.07	38.19	39.49
γ 53.0	43.85	42.43	37.31	38.52
γ 54.0	42.33	41.06	36.45	37.62
γ 55.0	40.97	39.61	35.50	36.59
γ 56.0	39.67	38.38	34.57	35.65
γ 57.0	38.35	37.11	33.50	34.68
γ 58.0	37.13	35.86	32.47	33.50
γ 59.0	35.91	34.61	31.36	32.45
γ 60.0	34.52	33.37	30.34	31.33
γ 61.0	33.21	32.10	29.10	30.09
γ 62.0	31.95	30.86	28.01	28.98
γ 63.0	30.71	29.61	26.83	27.70
γ 64.0	29.36	28.33	25.72	26.53
γ 65.0	28.18	27.19	24.49	25.45
γ 66.0	26.96	26.03	23.42	24.32
γ 67.0	25.78	24.92	22.27	23.16
γ 68.0	24.48	23.65	21.25	22.15
γ 69.0	23.36	22.44	20.29	21.08
γ 70.0	22.15	21.30	19.25	20.11
γ 71.0	21.05	20.28	18.29	19.09
γ 72.0	19.88	19.02	17.28	18.04
γ 73.0	18.68	17.84	16.17	17.07
γ 74.0	17.50	16.80	15.20	15.95
γ 75.0	16.38	15.58	14.11	14.92
γ 76.0	15.25	14.56	13.32	13.92
γ 77.0	14.16	13.51	12.28	13.05
γ 78.0	13.04	12.40	11.56	12.36
γ 79.0	12.32	11.61	11.14	12.01
γ 80.0	12.04	11.23	10.96	11.70
γ 81.0	11.79	11.06	10.58	11.42
γ 82.0	11.52	10.84	10.46	11.15
γ 83.0	11.25	10.65	10.18	10.89
γ 84.0	11.00	10.35	9.94	10.80
γ 85.0	10.79	10.06	9.79	10.47
γ 86.0	10.49	9.97	9.59	10.18
γ 87.0	10.31	9.73	9.35	9.91
γ 88.0	10.07	9.57	9.13	9.72
γ 89.0	9.81	9.34	8.98	9.58
γ 90.0	9.76	9.13	8.84	9.42
γ 91.0	9.65	9.01	8.66	9.22
γ 92.0	9.46	8.99	8.58	9.20
γ 93.0	9.35	8.80	8.41	9.10

IES Indoor Report

Photometric Filename:MD18-13-XX-01 3000K RA80 24D.IES

Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 94.0	9.25	8.73	8.40	8.90
γ 95.0	9.14	8.72	8.31	8.69
γ 96.0	9.08	8.60	8.19	8.68
γ 97.0	8.92	8.48	8.13	8.52
γ 98.0	8.84	8.43	8.00	8.45
γ 99.0	8.84	8.34	7.91	8.40
γ 100.0	8.69	8.34	7.86	8.28
γ 101.0	8.61	8.19	7.81	8.23
γ 102.0	8.58	8.19	7.77	8.25
γ 103.0	8.43	8.10	7.75	8.12
γ 104.0	8.39	8.00	7.71	8.06
γ 105.0	8.35	7.99	7.61	8.09
γ 106.0	8.24	7.93	7.56	8.03
γ 107.0	8.14	7.89	7.63	8.03
γ 108.0	8.17	7.77	7.57	7.92
γ 109.0	8.09	7.79	7.60	7.95
γ 110.0	8.05	7.73	7.55	7.94
γ 111.0	7.96	7.65	7.61	7.90
γ 112.0	7.89	7.61	7.60	7.92
γ 113.0	7.91	7.57	7.51	7.98
γ 114.0	7.74	7.53	7.66	7.95
γ 115.0	7.78	7.54	7.58	7.93
γ 116.0	7.80	7.46	7.64	7.91
γ 117.0	7.78	7.45	7.69	7.98
γ 118.0	7.72	7.42	7.70	8.01
γ 119.0	7.66	7.41	7.69	8.02
γ 120.0	7.61	7.44	7.89	8.01
γ 121.0	7.72	7.47	7.84	8.12
γ 122.0	7.67	7.49	7.99	8.17
γ 123.0	7.72	7.51	7.96	8.31
γ 124.0	7.75	7.56	8.16	8.35
γ 125.0	7.78	7.58	8.20	8.44
γ 126.0	7.84	7.62	8.31	8.56
γ 127.0	7.97	7.78	8.47	8.66
γ 128.0	8.02	7.86	8.62	8.86
γ 129.0	8.13	8.00	8.76	9.06
γ 130.0	8.25	8.10	8.92	9.20
γ 131.0	8.40	8.30	9.18	9.38
γ 132.0	8.61	8.43	9.42	9.59
γ 133.0	8.77	8.67	9.57	9.81
γ 134.0	8.93	8.83	9.81	10.08
γ 135.0	9.14	9.14	10.07	10.34
γ 136.0	9.47	9.35	10.41	10.70
γ 137.0	9.73	9.57	10.75	10.89
γ 138.0	9.98	9.95	11.04	11.10
γ 139.0	10.22	10.20	11.42	11.49
γ 140.0	10.59	10.49	11.66	11.86

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Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 141.0	10.89	10.81	11.98	12.12
γ 142.0	11.18	11.18	12.45	12.56
γ 143.0	11.56	11.40	12.65	12.76
γ 144.0	11.81	11.77	13.00	13.10
γ 145.0	12.21	12.12	13.37	13.44
γ 146.0	12.45	12.46	13.69	13.68
γ 147.0	12.84	12.71	13.87	13.99
γ 148.0	13.17	13.11	14.24	14.28
γ 149.0	13.33	13.38	14.46	14.49
γ 150.0	13.65	13.65	14.74	14.79
γ 151.0	13.95	13.94	14.92	14.99
γ 152.0	14.17	14.12	15.14	15.23
γ 153.0	14.48	14.39	15.46	15.37
γ 154.0	14.71	14.66	15.59	15.61
γ 155.0	14.87	14.81	15.69	15.79
γ 156.0	15.03	14.98	15.88	15.87
γ 157.0	15.23	15.17	16.03	16.08
γ 158.0	15.43	15.34	16.07	16.13
γ 159.0	15.55	15.47	16.26	16.18
γ 160.0	15.76	15.65	16.26	16.24
γ 161.0	15.83	15.68	16.35	16.37
γ 162.0	15.81	15.87	16.37	16.39
γ 163.0	15.98	15.89	16.38	16.46
γ 164.0	16.03	15.91	16.41	16.47
γ 165.0	16.08	16.03	16.44	16.43
γ 166.0	16.01	16.05	16.43	16.45
γ 167.0	16.01	16.05	16.33	16.46
γ 168.0	16.10	16.11	16.39	16.44
γ 169.0	16.04	16.02	16.36	16.39
γ 170.0	16.10	16.07	16.36	16.42
γ 171.0	15.97	16.04	16.35	16.35
γ 172.0	16.07	16.02	16.31	16.27
γ 173.0	16.05	16.02	16.22	16.32
γ 174.0	16.04	16.02	16.23	16.21
γ 175.0	16.05	16.01	16.16	16.20
γ 176.0	16.05	15.97	16.18	16.26
γ 177.0	16.00	16.06	16.13	16.11
γ 178.0	16.14	16.03	16.20	16.21
γ 179.0	16.15	16.05	16.14	16.25
γ 180.0	16.14	16.14	16.14	16.14