

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: METALUX

Report Number: P895514

Luminaire Tested: 8TMB-SC3-RNDU-UNV-CC83-LOW-3500K

Issue Date: 11/11/2024

**Test Information**

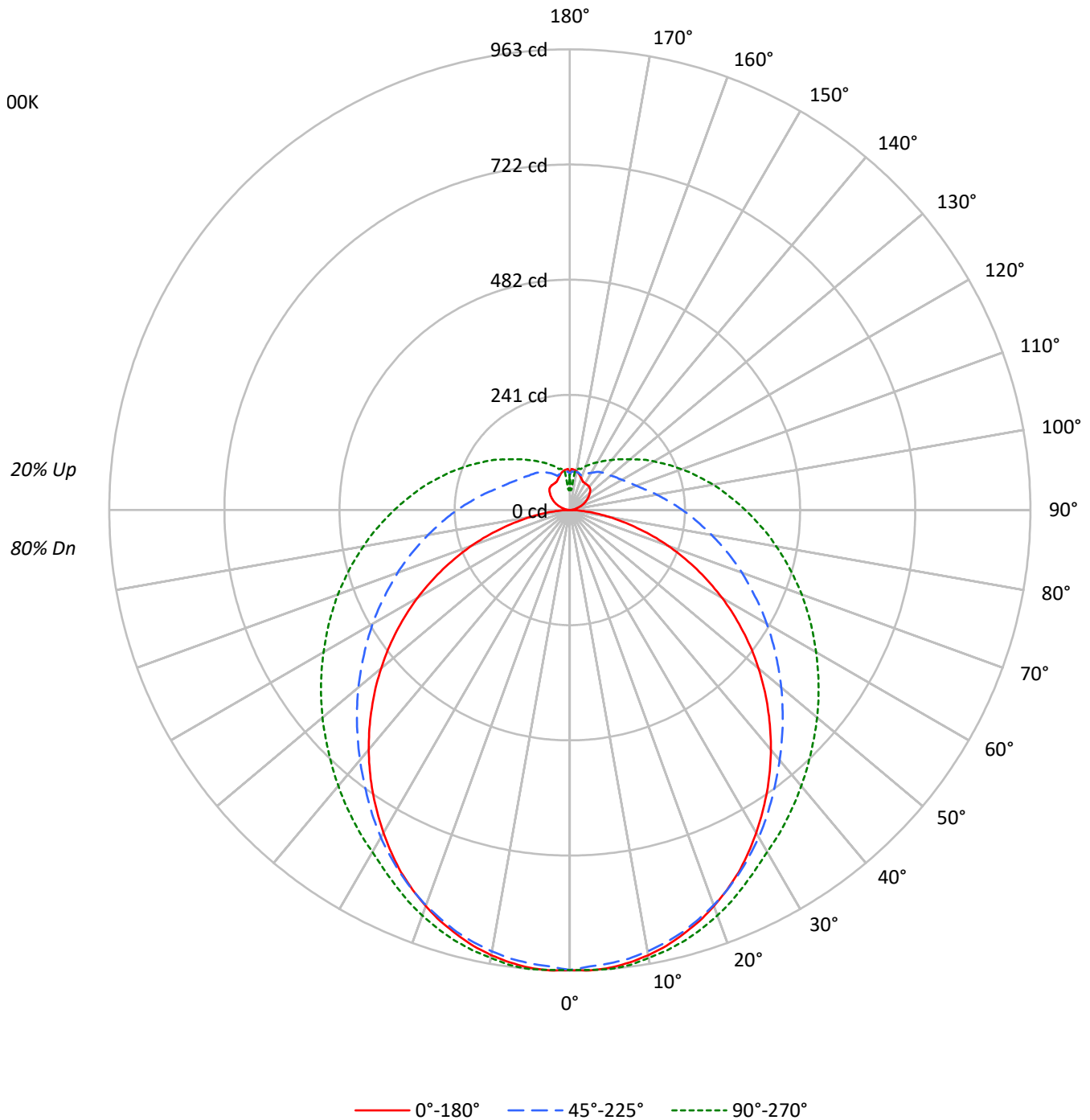
Test Method: LM-79-2019  
Report Number: P895514  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-SC3-RNDU-UNV-CC83-LOW-3500K  
Description: Selectable 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 80CRI, 35  
CCT, LOW lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4044.0 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 7.98' x H: 0.21')  
CIE Type: Semi-Direct  
  
Input Watts (W): 33.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.9915  
Total Harmonic Distortion (THDi): 6.67573310469889  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P895514  
CATALOG NUMBER: 8TMB-SC3-RNDU-UNV-CC83-LOW-3500K

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	83	83	83	80
1	102	96	91	86	97	92	87	83	84	80	76	76	73	70	69	67	65	65	65	65	61
2	92	82	75	68	87	79	72	66	72	66	61	65	61	57	60	56	53	53	53	53	49
3	83	72	63	56	79	69	61	54	63	56	51	57	52	47	52	48	44	44	44	44	41
4	76	63	54	47	72	60	52	45	55	48	43	51	45	40	46	41	37	37	37	37	34
5	69	56	47	40	66	54	45	39	49	42	37	45	39	34	41	36	32	32	32	32	29
6	64	50	41	35	61	48	40	34	44	37	32	41	35	30	37	32	28	28	28	28	26
7	59	46	37	30	56	44	35	30	40	33	28	37	31	26	34	29	25	25	25	25	23
8	55	41	33	27	52	40	32	26	37	30	25	34	28	24	31	26	22	22	22	22	20
9	51	38	30	24	49	36	29	23	34	27	22	31	25	21	29	24	20	20	20	20	18
10	48	35	27	22	46	34	26	21	31	25	20	29	23	19	27	22	18	18	18	18	16

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3412	3412	3412
5°	3414	3272	3274
10°	3389	3150	3123
15°	3347	3025	2983
20°	3295	2892	2840
25°	3230	2759	2696
30°	3146	2623	2568
35°	3058	2484	2474
40°	2965	2358	2389
45°	2863	2246	2313
50°	2757	2147	2254
55°	2635	2056	2203
60°	2497	1982	2165
65°	2327	1917	2143
70°	2116	1880	2137
75°	1829	1855	2146
80°	1481	1863	2180
85°	1032	1922	2251

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2863 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.0	2.2
10°-20°	259.4	6.4
20°-30°	389.4	9.6
30°-40°	468.3	11.6
40°-50°	496.2	12.3
50°-60°	477.8	11.8
60°-70°	422.9	10.5
70°-80°	346.9	8.6
80°-90°	269.1	6.7
90°-100°	208.9	5.2
100°-110°	165.5	4.1
110°-120°	131.9	3.3
120°-130°	104.8	2.6
130°-140°	81.8	2.0
140°-150°	60.2	1.5
150°-160°	39.8	1.0
160°-170°	22.9	0.6
170°-180°	7.4	0.2
0°-30°	739.8	18.3
0°-40°	1208.1	29.9
0°-60°	2182.0	54.0
0°-90°	3220.9	79.6
90°-120°	506.3	12.5
90°-150°	753.0	18.6
90°-180°	823.0	20.4
0°-180°	4044.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	962	962	962	962	962	
5°	961	962	951	959	963	91
15°	918	918	913	927	931	259
25°	835	838	838	859	864	384
35°	719	728	736	775	790	450
45°	586	599	629	689	714	452
55°	442	464	525	603	635	395
65°	293	333	427	517	555	290
75°	146	220	340	436	477	156
85°	33	133	266	363	402	38
90°	1	104	235	329	367	2
95°	5	86	208	297	334	5
105°	16	70	164	243	275	18
115°	33	67	136	198	225	32
125°	48	70	119	164	184	42
135°	60	74	107	137	150	46
145°	64	73	97	118	125	40
155°	65	76	83	101	106	31
165°	77	81	79	79	89	22
175°	85	84	80	67	45	8
180°	74	74	74	74	74	



TEST NUMBER: P895514  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	961.5	961.5	961.5	961.5	961.5	961.5	961.5	961.5	961.5	961.5	961.5
2.5°	963.3	962.4	964.2	966.0	971.5	964.2	967.9	957.8	958.7	959.6	955.1
5°	960.6	957.8	960.6	962.4	967.0	961.5	965.1	954.1	955.1	956.9	951.4
7.5°	954.1	951.4	953.2	955.1	959.6	954.1	958.7	947.7	949.6	950.5	945.9
10°	945.0	941.3	943.2	945.9	949.6	945.0	948.7	938.6	939.5	941.3	936.8
12.5°	933.1	929.4	931.3	933.1	937.7	933.1	936.8	926.7	928.5	930.4	925.8
15°	917.6	913.9	915.7	917.6	921.2	918.5	922.1	912.1	913.9	917.6	913.0
17.5°	901.1	895.6	897.4	900.2	903.8	902.0	904.7	896.5	897.4	901.1	896.5
20°	881.0	875.5	877.3	880.0	883.7	882.8	884.6	877.3	879.1	883.7	879.1
22.5°	859.0	853.5	855.3	859.0	861.8	861.8	862.7	857.2	859.0	863.6	859.9
25°	835.2	829.7	831.6	835.2	838.0	838.0	839.8	834.3	837.1	841.6	838.0
27.5°	807.8	805.0	805.0	808.7	810.5	812.4	813.3	808.7	812.4	816.9	814.2
30°	779.4	775.8	777.6	782.2	782.2	785.8	785.8	782.2	786.7	792.2	790.4
32.5°	749.2	746.5	747.4	752.9	752.9	757.5	756.5	754.7	759.3	765.7	763.9
35°	719.0	716.3	717.2	722.7	722.7	728.2	726.4	726.4	730.9	738.3	736.4
37.5°	687.0	685.2	686.1	691.6	691.6	697.1	695.3	696.2	701.7	709.9	709.0
40°	654.1	652.3	654.1	658.7	660.5	665.1	663.2	665.1	672.4	679.7	682.4
42.5°	620.2	619.3	621.2	625.7	627.6	632.1	631.2	634.0	641.3	652.3	655.9
45°	585.5	585.5	587.3	591.9	593.7	599.2	598.3	601.9	611.1	623.0	629.4
47.5°	550.7	551.6	552.5	558.0	558.0	567.2	564.4	569.9	581.8	595.5	602.9
50°	515.0	516.9	517.8	522.4	524.2	532.4	530.6	539.7	552.5	567.2	577.2
52.5°	479.4	481.2	483.0	486.7	488.5	498.6	496.7	508.6	524.2	539.7	550.7
55°	441.9	445.5	446.4	451.0	453.7	463.8	463.8	477.5	494.0	511.4	525.1
57.5°	405.3	408.9	409.8	415.3	419.0	430.9	432.7	448.3	466.6	483.9	500.4
60°	367.8	372.3	373.2	378.7	385.1	397.9	400.7	418.1	438.2	456.5	475.7
62.5°	330.2	334.8	336.7	342.1	352.2	365.0	369.6	389.7	410.8	430.9	451.9
65°	292.7	297.3	300.1	307.4	319.3	333.0	339.4	360.4	384.2	405.3	427.2
67.5°	255.2	260.7	264.4	273.5	289.1	303.7	310.1	333.9	358.6	381.5	404.3
70°	218.6	224.1	228.7	240.6	258.9	273.5	281.8	307.4	333.0	357.7	383.3
72.5°	183.0	188.5	194.9	209.5	229.6	246.1	255.2	281.8	310.1	334.8	361.4
75°	146.4	152.8	160.1	180.2	203.1	219.6	229.6	258.0	287.3	312.0	340.3
77.5°	113.4	119.8	130.8	150.9	176.6	194.9	205.8	236.0	266.2	290.9	320.2
80°	83.2	89.7	104.3	126.2	152.8	170.2	183.9	215.0	246.1	271.7	301.0
82.5°	56.7	63.1	80.5	104.3	132.6	150.0	162.8	195.8	226.9	253.4	282.7
85°	32.9	42.1	60.4	86.0	115.3	132.6	145.5	179.3	209.5	236.0	266.2
87.5°	14.6	25.6	45.7	71.4	100.6	117.1	130.8	161.9	193.9	220.5	250.7
90°	0.9	14.6	35.7	60.4	88.7	104.3	117.1	148.2	178.4	205.8	235.1
92.5°	1.8	10.1	29.3	52.1	78.7	94.2	107.0	136.3	164.7	193.0	221.4
95°	4.6	10.1	25.6	46.7	71.4	86.0	97.9	126.2	152.8	180.2	207.7
97.5°	7.3	11.0	24.7	43.9	65.9	79.6	90.6	117.1	143.6	168.3	195.8
100°	10.1	13.7	24.7	42.1	62.2	75.0	85.1	109.8	134.5	157.3	184.8
102.5°	12.8	16.5	26.5	42.1	60.4	71.4	81.4	104.3	127.2	148.2	173.8
105°	16.5	19.2	28.4	42.1	58.5	69.5	77.8	98.8	120.8	140.9	163.8
107.5°	20.1	22.0	30.2	43.0	58.5	67.7	75.9	95.1	115.3	133.6	155.5
110°	24.7	25.6	32.9	44.8	58.5	66.8	74.1	92.4	110.7	128.1	148.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	28.4	28.4	35.7	46.7	58.5	66.8	73.2	89.7	107.0	122.6	141.8
115°	32.9	32.9	38.4	48.5	59.5	66.8	73.2	88.7	104.3	118.0	136.3
117.5°	36.6	36.6	42.1	50.3	61.3	67.7	73.2	86.9	101.5	114.4	130.8
120°	40.3	40.3	43.9	52.1	62.2	68.6	73.2	86.0	98.8	111.6	126.2
122.5°	43.9	43.9	46.7	54.9	63.1	68.6	73.2	85.1	97.0	107.9	121.7
125°	47.6	47.6	49.4	56.7	65.0	69.5	74.1	85.1	96.1	105.2	118.9
127.5°	51.2	50.3	53.1	59.5	65.9	70.4	75.0	85.1	94.2	103.4	115.3
130°	54.0	53.1	56.7	61.3	67.7	71.4	75.0	84.2	93.3	101.5	111.6
132.5°	57.6	55.8	60.4	62.2	69.5	73.2	75.9	84.2	92.4	99.7	109.8
135°	60.4	58.5	63.1	65.0	70.4	74.1	76.8	84.2	91.5	98.8	107.0
137.5°	62.2	61.3	65.9	67.7	71.4	75.0	77.8	84.2	90.6	97.0	105.2
140°	63.1	62.2	65.9	69.5	71.4	75.0	76.8	83.2	89.7	95.1	102.5
142.5°	64.0	64.0	66.8	70.4	71.4	74.1	76.8	82.3	87.8	92.4	100.6
145°	64.0	64.0	66.8	71.4	72.3	73.2	75.0	80.5	85.1	89.7	97.0
147.5°	64.0	64.0	67.7	71.4	73.2	74.1	73.2	78.7	83.2	86.9	93.3
150°	64.0	64.0	67.7	71.4	74.1	75.0	74.1	76.8	80.5	84.2	89.7
152.5°	65.0	65.0	67.7	71.4	74.1	75.0	75.0	75.0	77.8	81.4	86.9
155°	65.0	65.9	67.7	73.2	75.0	75.9	75.9	75.9	75.0	78.7	83.2
157.5°	67.7	68.6	69.5	74.1	75.9	76.8	76.8	76.8	75.9	75.0	79.6
160°	70.4	71.4	72.3	75.9	77.8	78.7	78.7	78.7	76.8	75.9	75.9
162.5°	73.2	75.0	75.0	76.8	78.7	79.6	79.6	80.5	78.7	77.8	76.8
165°	76.8	77.8	77.8	78.7	80.5	81.4	80.5	81.4	80.5	79.6	78.7
167.5°	79.6	80.5	80.5	81.4	81.4	82.3	82.3	82.3	81.4	80.5	80.5
170°	82.3	83.2	83.2	83.2	83.2	83.2	83.2	83.2	82.3	80.5	80.5
172.5°	84.2	85.1	85.1	84.2	84.2	84.2	84.2	83.2	81.4	80.5	80.5
175°	85.1	86.0	86.0	85.1	84.2	84.2	84.2	83.2	81.4	80.5	80.5
177.5°	86.0	86.9	86.0	86.0	84.2	84.2	84.2	84.2	82.3	81.4	80.5
180°	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	961.5	961.5	961.5	961.5	961.5	961.5	961.5	961.5	961.5	961.5
2.5°	960.6	949.6	956.9	957.8	961.5	957.8	960.6	957.8	965.1	962.4
5°	956.9	946.8	953.2	954.1	958.7	954.1	958.7	956.9	966.0	963.3
7.5°	950.5	942.3	947.7	948.7	954.1	949.6	954.1	952.3	963.3	959.6
10°	941.3	934.9	940.4	941.3	946.8	942.3	945.9	944.1	956.0	950.5
12.5°	931.3	925.8	930.4	931.3	937.7	933.1	937.7	935.9	947.7	942.3
15°	916.6	913.9	918.5	920.3	926.7	923.0	927.6	925.8	938.6	931.3
17.5°	902.0	900.2	904.7	906.6	913.9	909.3	913.9	912.1	924.9	917.6
20°	883.7	882.8	887.4	890.1	896.5	891.9	897.4	895.6	909.3	902.0
22.5°	864.5	864.5	868.2	870.9	877.3	873.6	879.1	878.2	891.9	884.6
25°	843.5	844.4	848.0	851.7	859.0	856.3	860.8	860.8	873.6	864.5
27.5°	819.7	824.2	827.0	831.6	838.0	835.2	839.8	840.7	853.5	844.4
30°	795.0	801.4	804.1	809.6	815.1	815.1	819.7	821.5	834.3	825.2
32.5°	769.4	776.7	780.3	787.7	795.0	795.0	801.4	804.1	816.9	808.7
35°	743.7	753.8	758.4	767.5	774.8	775.8	782.2	785.8	798.6	790.4
37.5°	719.0	731.8	736.4	747.4	753.8	755.6	763.0	767.5	779.4	772.1
40°	693.4	709.0	714.5	726.4	731.8	735.5	742.8	748.3	759.3	752.9
42.5°	668.7	686.1	691.6	704.4	710.8	714.5	721.8	729.1	740.1	733.7
45°	644.0	663.2	669.6	683.4	688.9	694.3	702.6	709.0	719.0	713.6
47.5°	620.2	640.4	646.8	661.4	667.8	674.2	681.5	690.7	699.8	694.3
50°	595.5	616.6	624.8	640.4	645.9	653.2	662.3	670.6	679.7	675.1
52.5°	571.8	593.7	601.9	618.4	624.8	632.1	641.3	650.4	658.7	655.0
55°	546.1	569.9	579.1	596.5	602.9	610.2	620.2	630.3	637.6	634.9
57.5°	522.4	547.1	556.2	575.4	580.9	590.1	600.1	611.1	617.5	614.8
60°	498.6	523.3	534.3	553.5	559.9	569.0	579.1	591.0	596.5	594.6
62.5°	474.8	500.4	512.3	532.4	537.9	548.0	559.9	569.9	575.4	574.5
65°	452.8	477.5	491.3	511.4	516.9	527.8	538.8	549.8	555.3	555.3
67.5°	430.0	456.5	470.2	491.3	495.8	507.7	519.6	530.6	535.2	535.2
70°	408.9	434.5	450.1	471.1	475.7	486.7	499.5	511.4	515.0	516.0
72.5°	387.9	413.5	430.0	451.9	456.5	467.5	479.4	492.2	494.9	495.8
75°	367.8	393.4	409.8	431.8	436.4	447.3	460.2	472.0	475.7	476.6
77.5°	347.6	373.2	391.5	412.6	417.2	428.1	440.9	452.8	455.6	457.4
80°	329.3	354.0	371.4	394.3	398.9	409.8	421.7	433.6	435.5	438.2
82.5°	311.0	335.7	354.0	376.0	380.6	391.5	403.4	415.3	417.2	420.8
85°	293.7	318.4	336.7	357.7	363.2	373.2	386.1	397.0	398.9	401.6
87.5°	278.1	301.0	320.2	340.3	345.8	355.9	368.7	379.6	380.6	384.2
90°	261.6	284.5	303.7	323.8	329.3	338.5	351.3	362.3	364.1	366.8
92.5°	247.9	269.0	289.1	308.3	312.9	322.9	334.8	345.8	347.6	350.4
95°	233.3	254.3	274.4	292.7	297.3	307.4	318.4	329.3	331.2	333.9
97.5°	220.5	240.6	259.8	278.1	282.7	291.8	303.7	313.8	315.6	319.3
100°	208.6	227.8	247.9	264.4	269.0	278.1	289.1	299.1	301.0	304.6
102.5°	197.6	215.9	235.1	250.7	256.1	264.4	275.4	284.5	286.3	289.1
105°	187.5	204.9	223.2	237.9	243.3	251.6	261.6	270.8	272.6	275.4
107.5°	177.5	193.9	211.3	226.0	230.5	237.9	247.9	257.1	258.9	262.6
110°	168.3	184.8	201.3	215.0	220.5	226.0	236.0	244.3	246.1	248.8





TEST NUMBER: P895514

CATALOG NUMBER: 8TMB-SC3-RNDU-UNV-CC83-LOW-3500K

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	160.1	174.7	191.2	204.0	208.6	215.0	223.2	231.4	233.3	236.9
115°	152.8	166.5	183.0	194.9	198.5	204.0	213.2	220.5	222.3	225.0
117.5°	146.4	158.3	172.9	184.8	189.4	193.9	202.2	208.6	211.3	213.2
120°	140.9	151.9	164.7	175.6	181.1	184.8	192.1	198.5	201.3	203.1
122.5°	135.4	145.5	157.3	167.4	172.0	174.7	183.0	188.5	191.2	193.9
125°	130.8	140.0	150.9	159.2	163.8	166.5	173.8	179.3	182.0	183.9
127.5°	126.2	134.5	145.5	151.9	156.4	158.3	164.7	170.2	172.9	173.8
130°	121.7	129.9	139.1	145.5	149.1	151.9	157.3	161.0	163.8	164.7
132.5°	118.0	125.3	133.6	140.0	143.6	144.5	150.0	153.7	156.4	157.3
135°	115.3	120.8	129.0	134.5	137.2	139.1	143.6	146.4	149.1	150.0
137.5°	111.6	117.1	124.4	128.1	131.7	132.6	137.2	140.0	142.7	143.6
140°	108.9	113.4	119.8	123.5	127.2	127.2	130.8	133.6	136.3	136.3
142.5°	106.1	110.7	116.2	119.8	122.6	122.6	126.2	128.1	130.8	130.8
145°	102.5	107.0	112.5	115.3	118.0	118.0	120.8	122.6	125.3	125.3
147.5°	98.8	103.4	108.9	110.7	113.4	113.4	116.2	118.0	119.8	119.8
150°	94.2	97.9	104.3	107.0	109.8	109.8	111.6	113.4	115.3	115.3
152.5°	90.6	93.3	98.8	102.5	105.2	105.2	107.0	108.9	110.7	110.7
155°	86.0	88.7	93.3	97.9	100.6	101.5	103.4	104.3	106.1	106.1
157.5°	82.3	85.1	88.7	92.4	95.1	97.0	99.7	100.6	101.5	101.5
160°	77.8	79.6	83.2	86.9	89.7	91.5	96.1	97.0	97.9	97.9
162.5°	75.9	75.9	77.8	80.5	83.2	84.2	88.7	92.4	94.2	93.3
165°	76.8	75.9	75.9	76.8	78.7	79.6	82.3	87.8	89.7	88.7
167.5°	78.7	76.8	75.9	75.9	77.8	77.8	80.5	85.1	90.6	88.7
170°	78.7	75.9	74.1	74.1	75.0	75.0	76.8	79.6	85.1	86.0
172.5°	77.8	75.9	73.2	69.5	70.4	69.5	68.6	70.4	71.4	80.5
175°	78.7	75.9	73.2	68.6	66.8	64.0	59.5	55.8	54.9	44.8
177.5°	77.8	75.0	71.4	67.7	65.9	62.2	56.7	50.3	46.7	41.2
180°	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1



TEST NUMBER: P895514  
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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	11.22	12.53	11.86	13.20	13.96	14.84	16.15	15.48	16.82	17.59
	3H	12.57	13.76	13.22	14.44	15.24	17.80	19.00	18.45	19.67	20.47
	4H	12.97	14.11	13.64	14.79	15.61	19.30	20.44	19.98	21.13	21.94
	6H	13.18	14.25	13.87	14.94	15.77	20.91	21.98	21.60	22.67	23.50
	8H	13.22	14.24	13.91	14.95	15.79	21.76	22.78	22.46	23.50	24.33
	12H	13.22	14.20	13.93	14.91	15.77	22.71	23.69	23.41	24.40	25.26
4H	2H	12.38	13.52	13.05	14.20	15.02	15.16	16.30	15.83	16.98	17.80
	3H	14.02	14.99	14.71	15.72	16.55	18.34	19.32	19.03	20.04	20.88
	4H	14.59	15.49	15.29	16.21	17.07	20.02	20.92	20.73	21.65	22.51
	6H	14.93	15.72	15.65	16.47	17.34	21.84	22.64	22.56	23.39	24.26
	8H	15.00	15.75	15.72	16.50	17.38	22.82	23.57	23.54	24.31	25.20
	12H	15.02	15.71	15.77	16.48	17.37	23.90	24.59	24.65	25.36	26.25
8H	4H	15.69	16.44	16.42	17.19	18.07	20.19	20.94	20.92	21.69	22.57
	6H	16.30	16.94	17.06	17.73	18.61	22.19	22.83	22.94	23.62	24.50
	8H	16.50	17.08	17.26	17.86	18.76	23.31	23.89	24.07	24.67	25.57
	12H	16.61	17.13	17.38	17.91	18.86	24.58	25.10	25.35	25.88	26.84
12H	4H	16.06	16.74	16.81	17.51	18.40	20.19	20.87	20.93	21.64	22.53
	6H	16.84	17.42	17.60	18.20	19.10	22.22	22.80	22.98	23.58	24.48
	8H	17.16	17.68	17.93	18.46	19.42	23.40	23.92	24.17	24.69	25.65