

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: P895516

Luminaire Tested: 8TMB-SC3-RNDU-UNV-CC83-LOW-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895516
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-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 80CRI, 50
CCT, LOW lumen setting
Light Source: -
Ballast/Driver: -

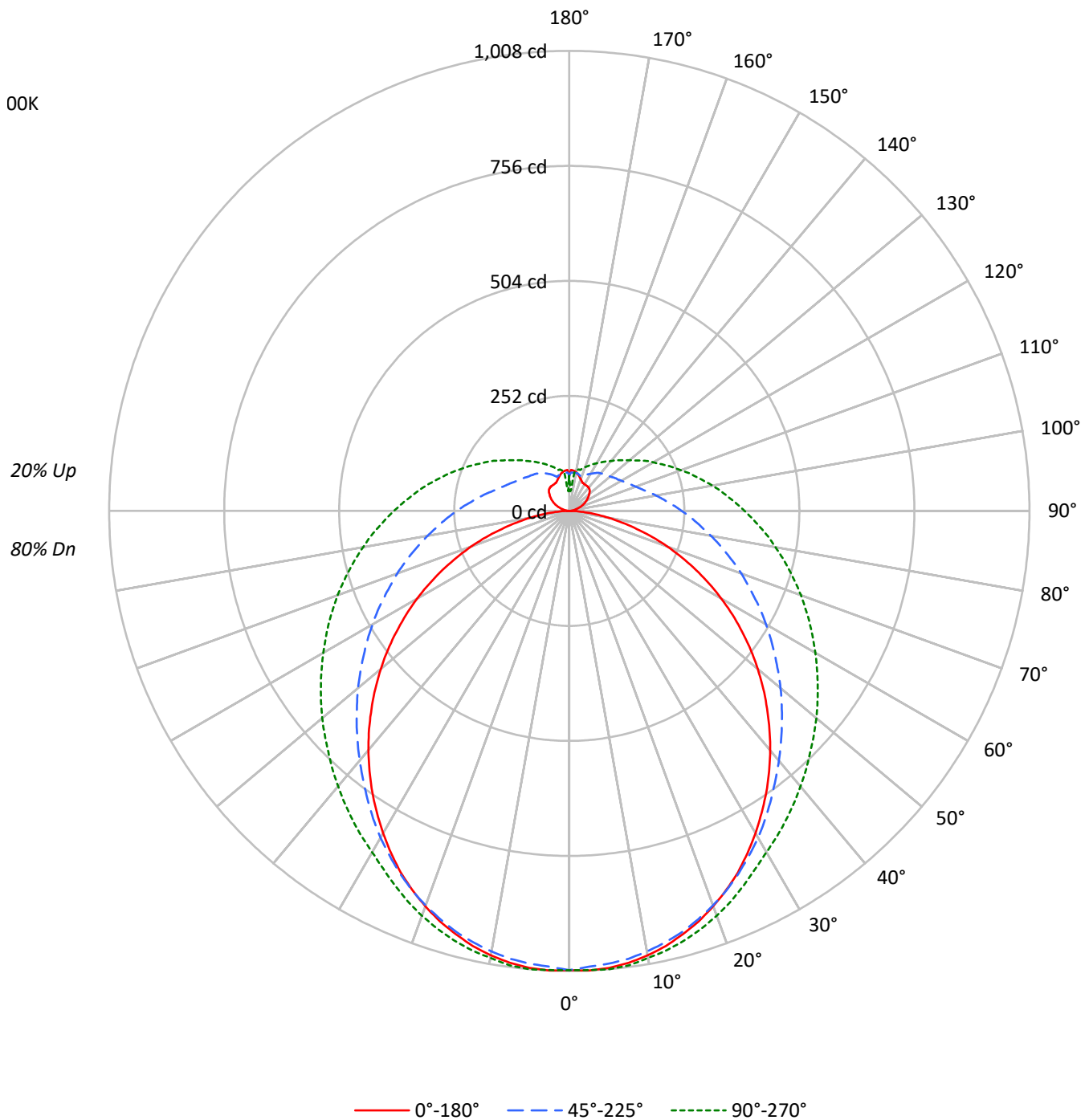
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4232.0 lumens
Efficiency: N/A
Efficacy: 126.3 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

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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°	3570	3570	3570
5°	3572	3424	3426
10°	3547	3296	3268
15°	3503	3165	3122
20°	3448	3027	2971
25°	3381	2887	2821
30°	3292	2745	2688
35°	3201	2599	2589
40°	3102	2468	2500
45°	2996	2351	2421
50°	2885	2247	2359
55°	2758	2152	2306
60°	2613	2074	2266
65°	2435	2007	2243
70°	2215	1967	2236
75°	1914	1941	2246
80°	1550	1949	2281
85°	1082	2011	2356

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2996 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	2.2
10°-20°	271.4	6.4
20°-30°	407.5	9.6
30°-40°	490.1	11.6
40°-50°	519.2	12.3
50°-60°	500.0	11.8
60°-70°	442.5	10.5
70°-80°	363.0	8.6
80°-90°	281.7	6.7
90°-100°	218.6	5.2
100°-110°	173.2	4.1
110°-120°	138.0	3.3
120°-130°	109.6	2.6
130°-140°	85.6	2.0
140°-150°	63.0	1.5
150°-160°	41.7	1.0
160°-170°	24.0	0.6
170°-180°	7.7	0.2
0°-30°	774.2	18.3
0°-40°	1264.2	29.9
0°-60°	2283.5	54.0
0°-90°	3370.6	79.6
90°-120°	529.8	12.5
90°-150°	788.0	18.6
90°-180°	861.0	20.3
0°-180°	4232.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	1005	1006	996	1003	1008	95
15°	960	961	955	970	975	271
25°	874	877	877	899	905	402
35°	752	762	771	811	827	470
45°	613	627	659	721	747	473
55°	462	485	550	631	664	414
65°	306	348	447	541	581	303
75°	153	230	356	457	499	164
85°	34	139	279	380	420	39
90°	1	109	246	345	384	3
95°	5	90	217	311	349	5
105°	17	73	171	255	288	18
115°	34	70	143	208	236	34
125°	50	73	124	171	192	44
135°	63	78	112	144	157	48
145°	67	77	102	124	131	42
155°	68	80	87	105	111	32
165°	80	85	82	82	93	23
175°	89	88	84	70	47	8
180°	78	78	78	78	78	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1006.2	1006.2	1006.2	1006.2	1006.2	1006.2	1006.2	1006.2	1006.2	1006.2	1006.2
2.5°	1008.1	1007.1	1009.0	1011.0	1016.7	1009.0	1012.9	1002.3	1003.3	1004.3	999.5
5°	1005.2	1002.3	1005.2	1007.1	1011.9	1006.2	1010.0	998.5	999.5	1001.4	995.6
7.5°	998.5	995.6	997.5	999.5	1004.3	998.5	1003.3	991.8	993.7	994.7	989.9
10°	988.9	985.1	987.0	989.9	993.7	988.9	992.8	982.2	983.2	985.1	980.3
12.5°	976.5	972.7	974.6	976.5	981.3	976.5	980.3	969.8	971.7	973.6	968.8
15°	960.2	956.4	958.3	960.2	964.0	961.2	965.0	954.5	956.4	960.2	955.4
17.5°	943.0	937.2	939.2	942.0	945.9	943.9	946.8	938.2	939.2	943.0	938.2
20°	921.9	916.2	918.1	921.0	924.8	923.8	925.7	918.1	920.0	924.8	920.0
22.5°	898.9	893.2	895.1	898.9	901.8	901.8	902.8	897.0	898.9	903.7	899.9
25°	874.1	868.3	870.2	874.1	876.9	876.9	878.8	873.1	876.0	880.8	876.9
27.5°	845.3	842.5	842.5	846.3	848.2	850.1	851.1	846.3	850.1	854.9	852.0
30°	815.7	811.8	813.7	818.5	818.5	822.4	822.4	818.5	823.3	829.1	827.1
32.5°	784.1	781.2	782.1	787.9	787.9	792.7	791.7	789.8	794.6	801.3	799.4
35°	752.5	749.6	750.6	756.3	756.3	762.0	760.1	760.1	764.9	772.6	770.7
37.5°	719.0	717.0	718.0	723.7	723.7	729.5	727.6	728.5	734.3	742.9	741.9
40°	684.5	682.6	684.5	689.3	691.2	696.0	694.1	696.0	703.6	711.3	714.2
42.5°	649.1	648.1	650.0	654.8	656.7	661.5	660.6	663.4	671.1	682.6	686.4
45°	612.7	612.7	614.6	619.4	621.3	627.1	626.1	629.9	639.5	651.9	658.7
47.5°	576.3	577.3	578.2	584.0	584.0	593.6	590.7	596.4	608.9	623.2	630.9
50°	539.0	540.9	541.9	546.6	548.6	557.2	555.3	564.8	578.2	593.6	604.1
52.5°	501.6	503.6	505.5	509.3	511.2	521.8	519.8	532.3	548.6	564.8	576.3
55°	462.4	466.2	467.2	472.0	474.8	485.4	485.4	499.7	517.0	535.2	549.5
57.5°	424.1	427.9	428.9	434.6	438.5	450.9	452.8	469.1	488.2	506.4	523.7
60°	384.9	389.6	390.6	396.3	403.0	416.4	419.3	437.5	458.6	477.7	497.8
62.5°	345.6	350.4	352.3	358.0	368.6	382.0	386.8	407.8	429.8	450.9	472.9
65°	306.3	311.1	314.0	321.7	334.1	348.5	355.2	377.2	402.1	424.1	447.1
67.5°	267.1	272.8	276.7	286.2	302.5	317.8	324.5	349.4	375.3	399.2	423.1
70°	228.8	234.5	239.3	251.8	270.9	286.2	294.9	321.7	348.5	374.3	401.1
72.5°	191.5	197.2	203.9	219.2	240.3	257.5	267.1	294.9	324.5	350.4	378.1
75°	153.2	159.9	167.5	188.6	212.5	229.8	240.3	270.0	300.6	326.5	356.1
77.5°	118.7	125.4	136.9	158.0	184.8	203.9	215.4	247.0	278.6	304.4	335.1
80°	87.1	93.8	109.1	132.1	159.9	178.1	192.4	225.0	257.5	284.3	315.0
82.5°	59.4	66.1	84.2	109.1	138.8	157.0	170.4	204.9	237.4	265.2	295.8
85°	34.5	44.0	63.2	90.0	120.6	138.8	152.2	187.6	219.2	247.0	278.6
87.5°	15.3	26.8	47.9	74.7	105.3	122.5	136.9	169.4	203.0	230.7	262.3
90°	1.0	15.3	37.3	63.2	92.9	109.1	122.5	155.1	186.7	215.4	246.0
92.5°	1.9	10.5	30.6	54.6	82.3	98.6	112.0	142.6	172.3	202.0	231.7
95°	4.8	10.5	26.8	48.8	74.7	90.0	102.4	132.1	159.9	188.6	217.3
97.5°	7.7	11.5	25.8	46.0	68.9	83.3	94.8	122.5	150.3	176.2	204.9
100°	10.5	14.4	25.8	44.0	65.1	78.5	89.0	114.9	140.7	164.7	193.4
102.5°	13.4	17.2	27.8	44.0	63.2	74.7	85.2	109.1	133.1	155.1	181.9
105°	17.2	20.1	29.7	44.0	61.3	72.8	81.4	103.4	126.4	147.4	171.4
107.5°	21.1	23.0	31.6	45.0	61.3	70.8	79.5	99.6	120.6	139.8	162.7
110°	25.8	26.8	34.5	46.9	61.3	69.9	77.5	96.7	115.8	134.0	155.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	29.7	29.7	37.3	48.8	61.3	69.9	76.6	93.8	112.0	128.3	148.4
115°	34.5	34.5	40.2	50.7	62.2	69.9	76.6	92.9	109.1	123.5	142.6
117.5°	38.3	38.3	44.0	52.7	64.1	70.8	76.6	90.9	106.3	119.7	136.9
120°	42.1	42.1	46.0	54.6	65.1	71.8	76.6	90.0	103.4	116.8	132.1
122.5°	46.0	46.0	48.8	57.4	66.1	71.8	76.6	89.0	101.5	113.0	127.3
125°	49.8	49.8	51.7	59.4	68.0	72.8	77.5	89.0	100.5	110.1	124.5
127.5°	53.6	52.7	55.5	62.2	68.9	73.7	78.5	89.0	98.6	108.2	120.6
130°	56.5	55.5	59.4	64.1	70.8	74.7	78.5	88.1	97.6	106.3	116.8
132.5°	60.3	58.4	63.2	65.1	72.8	76.6	79.5	88.1	96.7	104.4	114.9
135°	63.2	61.3	66.1	68.0	73.7	77.5	80.4	88.1	95.7	103.4	112.0
137.5°	65.1	64.1	68.9	70.8	74.7	78.5	81.4	88.1	94.8	101.5	110.1
140°	66.1	65.1	68.9	72.8	74.7	78.5	80.4	87.1	93.8	99.6	107.2
142.5°	67.0	67.0	69.9	73.7	74.7	77.5	80.4	86.2	91.9	96.7	105.3
145°	67.0	67.0	69.9	74.7	75.6	76.6	78.5	84.2	89.0	93.8	101.5
147.5°	67.0	67.0	70.8	74.7	76.6	77.5	76.6	82.3	87.1	90.9	97.6
150°	67.0	67.0	70.8	74.7	77.5	78.5	77.5	80.4	84.2	88.1	93.8
152.5°	68.0	68.0	70.8	74.7	77.5	78.5	78.5	78.5	81.4	85.2	90.9
155°	68.0	68.9	70.8	76.6	78.5	79.5	79.5	79.5	78.5	82.3	87.1
157.5°	70.8	71.8	72.8	77.5	79.5	80.4	80.4	80.4	79.5	78.5	83.3
160°	73.7	74.7	75.6	79.5	81.4	82.3	82.3	82.3	80.4	79.5	79.5
162.5°	76.6	78.5	78.5	80.4	82.3	83.3	83.3	84.2	82.3	81.4	80.4
165°	80.4	81.4	81.4	82.3	84.2	85.2	84.2	85.2	84.2	83.3	82.3
167.5°	83.3	84.2	84.2	85.2	85.2	86.2	86.2	86.2	85.2	84.2	84.2
170°	86.2	87.1	87.1	87.1	87.1	87.1	87.1	87.1	86.2	84.2	84.2
172.5°	88.1	89.0	89.0	88.1	88.1	88.1	88.1	87.1	85.2	84.2	84.2
175°	89.0	90.0	90.0	89.0	88.1	88.1	88.1	87.1	85.2	84.2	84.2
177.5°	90.0	90.9	90.0	90.0	88.1	88.1	88.1	88.1	86.2	85.2	84.2
180°	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1006.2	1006.2	1006.2	1006.2	1006.2	1006.2	1006.2	1006.2	1006.2	1006.2
2.5°	1005.2	993.7	1001.4	1002.3	1006.2	1002.3	1005.2	1002.3	1010.0	1007.1
5°	1001.4	990.8	997.5	998.5	1003.3	998.5	1003.3	1001.4	1011.0	1008.1
7.5°	994.7	986.1	991.8	992.8	998.5	993.7	998.5	996.6	1008.1	1004.3
10°	985.1	978.4	984.1	985.1	990.8	986.1	989.9	988.0	1000.4	994.7
12.5°	974.6	968.8	973.6	974.6	981.3	976.5	981.3	979.4	991.8	986.1
15°	959.3	956.4	961.2	963.1	969.8	966.0	970.7	968.8	982.2	974.6
17.5°	943.9	942.0	946.8	948.7	956.4	951.6	956.4	954.5	967.9	960.2
20°	924.8	923.8	928.6	931.5	938.2	933.4	939.2	937.2	951.6	943.9
22.5°	904.7	904.7	908.5	911.4	918.1	914.3	920.0	919.0	933.4	925.7
25°	882.7	883.6	887.5	891.3	898.9	896.1	900.9	900.9	914.3	904.7
27.5°	857.8	862.6	865.4	870.2	876.9	874.1	878.8	879.8	893.2	883.6
30°	831.9	838.6	841.5	847.2	853.0	853.0	857.8	859.7	873.1	863.5
32.5°	805.1	812.8	816.6	824.3	831.9	831.9	838.6	841.5	854.9	846.3
35°	778.3	788.8	793.6	803.2	810.9	811.8	818.5	822.4	835.8	827.1
37.5°	752.5	765.9	770.7	782.1	788.8	790.8	798.4	803.2	815.7	808.0
40°	725.7	741.9	747.7	760.1	765.9	769.7	777.4	783.1	794.6	787.9
42.5°	699.8	718.0	723.7	737.2	743.9	747.7	755.3	763.0	774.5	767.8
45°	674.0	694.1	700.8	715.1	720.9	726.6	735.2	741.9	752.5	746.7
47.5°	649.1	670.1	676.8	692.2	698.9	705.6	713.2	722.8	732.4	726.6
50°	623.2	645.2	653.9	670.1	675.9	683.5	693.1	701.7	711.3	706.5
52.5°	598.3	621.3	629.9	647.2	653.9	661.5	671.1	680.7	689.3	685.5
55°	571.5	596.4	606.0	624.2	630.9	638.5	649.1	659.6	667.3	664.4
57.5°	546.6	572.5	582.1	602.2	607.9	617.5	628.0	639.5	646.2	643.3
60°	521.8	547.6	559.1	579.2	585.9	595.5	606.0	618.4	624.2	622.3
62.5°	496.9	523.7	536.1	557.2	562.9	573.4	585.9	596.4	602.2	601.2
65°	473.9	499.7	514.1	535.2	540.9	552.4	563.9	575.4	581.1	581.1
67.5°	449.9	477.7	492.1	514.1	518.9	531.3	543.8	555.3	560.0	560.0
70°	427.9	454.7	471.0	493.0	497.8	509.3	522.7	535.2	539.0	539.9
72.5°	405.9	432.7	449.9	472.9	477.7	489.2	501.6	515.0	517.9	518.9
75°	384.9	411.7	428.9	451.9	456.7	468.1	481.5	494.0	497.8	498.8
77.5°	363.8	390.6	409.7	431.8	436.5	448.0	461.4	473.9	476.8	478.7
80°	344.6	370.5	388.7	412.6	417.4	428.9	441.3	453.8	455.7	458.6
82.5°	325.5	351.3	370.5	393.5	398.3	409.7	422.2	434.6	436.5	440.4
85°	307.3	333.2	352.3	374.3	380.1	390.6	404.0	415.5	417.4	420.3
87.5°	291.0	315.0	335.1	356.1	361.9	372.4	385.8	397.3	398.3	402.1
90°	273.8	297.7	317.8	338.9	344.6	354.2	367.6	379.1	381.0	383.9
92.5°	259.4	281.5	302.5	322.6	327.4	337.9	350.4	361.9	363.8	366.7
95°	244.1	266.1	287.2	306.3	311.1	321.7	333.2	344.6	346.6	349.4
97.5°	230.7	251.8	271.9	291.0	295.8	305.4	317.8	328.4	330.3	334.1
100°	218.3	238.4	259.4	276.7	281.5	291.0	302.5	313.1	315.0	318.8
102.5°	206.8	225.9	246.0	262.3	268.1	276.7	288.2	297.7	299.6	302.5
105°	196.3	214.4	233.6	248.9	254.7	263.3	273.8	283.4	285.3	288.2
107.5°	185.7	203.0	221.1	236.5	241.2	248.9	259.4	269.0	270.9	274.8
110°	176.2	193.4	210.6	225.0	230.7	236.5	247.0	255.6	257.5	260.4



TEST NUMBER: P895516

CATALOG NUMBER: 8TMB-SC3-RNDU-UNV-CC83-LOW-5000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	167.5	182.9	200.1	213.5	218.3	225.0	233.6	242.2	244.1	248.0
115°	159.9	174.2	191.5	203.9	207.7	213.5	223.1	230.7	232.6	235.5
117.5°	153.2	165.6	180.9	193.4	198.2	203.0	211.6	218.3	221.1	223.1
120°	147.4	158.9	172.3	183.8	189.6	193.4	201.0	207.7	210.6	212.5
122.5°	141.7	152.2	164.7	175.2	180.0	182.9	191.5	197.2	200.1	203.0
125°	136.9	146.5	158.0	166.6	171.4	174.2	181.9	187.6	190.5	192.4
127.5°	132.1	140.7	152.2	158.9	163.7	165.6	172.3	178.1	180.9	181.9
130°	127.3	135.9	145.5	152.2	156.0	158.9	164.7	168.5	171.4	172.3
132.5°	123.5	131.2	139.8	146.5	150.3	151.3	157.0	160.8	163.7	164.7
135°	120.6	126.4	135.0	140.7	143.6	145.5	150.3	153.2	156.0	157.0
137.5°	116.8	122.5	130.2	134.0	137.9	138.8	143.6	146.5	149.3	150.3
140°	113.9	118.7	125.4	129.2	133.1	133.1	136.9	139.8	142.6	142.6
142.5°	111.1	115.8	121.6	125.4	128.3	128.3	132.1	134.0	136.9	136.9
145°	107.2	112.0	117.8	120.6	123.5	123.5	126.4	128.3	131.2	131.2
147.5°	103.4	108.2	113.9	115.8	118.7	118.7	121.6	123.5	125.4	125.4
150°	98.6	102.4	109.1	112.0	114.9	114.9	116.8	118.7	120.6	120.6
152.5°	94.8	97.6	103.4	107.2	110.1	110.1	112.0	113.9	115.8	115.8
155°	90.0	92.9	97.6	102.4	105.3	106.3	108.2	109.1	111.1	111.1
157.5°	86.2	89.0	92.9	96.7	99.6	101.5	104.4	105.3	106.3	106.3
160°	81.4	83.3	87.1	90.9	93.8	95.7	100.5	101.5	102.4	102.4
162.5°	79.5	79.5	81.4	84.2	87.1	88.1	92.9	96.7	98.6	97.6
165°	80.4	79.5	79.5	80.4	82.3	83.3	86.2	91.9	93.8	92.9
167.5°	82.3	80.4	79.5	79.5	81.4	81.4	84.2	89.0	94.8	92.9
170°	82.3	79.5	77.5	77.5	78.5	78.5	80.4	83.3	89.0	90.0
172.5°	81.4	79.5	76.6	72.8	73.7	72.8	71.8	73.7	74.7	84.2
175°	82.3	79.5	76.6	71.8	69.9	67.0	62.2	58.4	57.4	46.9
177.5°	81.4	78.5	74.7	70.8	68.9	65.1	59.4	52.7	48.8	43.1
180°	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5



TEST NUMBER: P895516
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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	11.38	12.69	12.02	13.35	14.12	15.00	16.31	15.64	16.98	17.75
	3H	12.72	13.92	13.38	14.60	15.40	17.96	19.15	18.61	19.83	20.63
	4H	13.13	14.27	13.80	14.95	15.77	19.46	20.60	20.13	21.29	22.10
	6H	13.34	14.40	14.03	15.10	15.93	21.07	22.13	21.76	22.83	23.66
	8H	13.38	14.39	14.07	15.11	15.94	21.92	22.94	22.62	23.66	24.49
	12H	13.38	14.36	14.08	15.07	15.93	22.87	23.84	23.57	24.56	25.42
4H	2H	12.53	13.67	13.21	14.36	15.17	15.32	16.45	15.99	17.14	17.96
	3H	14.18	15.15	14.86	15.87	16.71	18.50	19.48	19.19	20.20	21.03
	4H	14.74	15.64	15.45	16.37	17.23	20.18	21.08	20.88	21.81	22.67
	6H	15.08	15.88	15.80	16.63	17.50	22.00	22.80	22.72	23.55	24.41
	8H	15.16	15.91	15.88	16.66	17.54	22.97	23.72	23.70	24.47	25.36
	12H	15.18	15.87	15.93	16.64	17.53	24.06	24.74	24.81	25.51	26.40
8H	4H	15.85	16.60	16.58	17.35	18.23	20.35	21.10	21.08	21.85	22.73
	6H	16.46	17.10	17.21	17.89	18.77	22.35	22.99	23.10	23.77	24.66
	8H	16.65	17.23	17.42	18.02	18.92	23.46	24.04	24.23	24.83	25.73
	12H	16.77	17.28	17.54	18.06	19.02	24.74	25.26	25.51	26.04	26.99
12H	4H	16.22	16.90	16.96	17.67	18.56	20.34	21.03	21.09	21.80	22.69
	6H	16.99	17.57	17.76	18.36	19.26	22.37	22.95	23.14	23.74	24.64
	8H	17.32	17.84	18.09	18.62	19.57	23.56	24.07	24.33	24.85	25.81