

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: P895524

Luminaire Tested: 8TMB-SC3-RNDU-UNV-CC93-LOW-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895524
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-CC93-LOW-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 90CRI, 40
CCT, LOW lumen setting
Light Source: -
Ballast/Driver: -

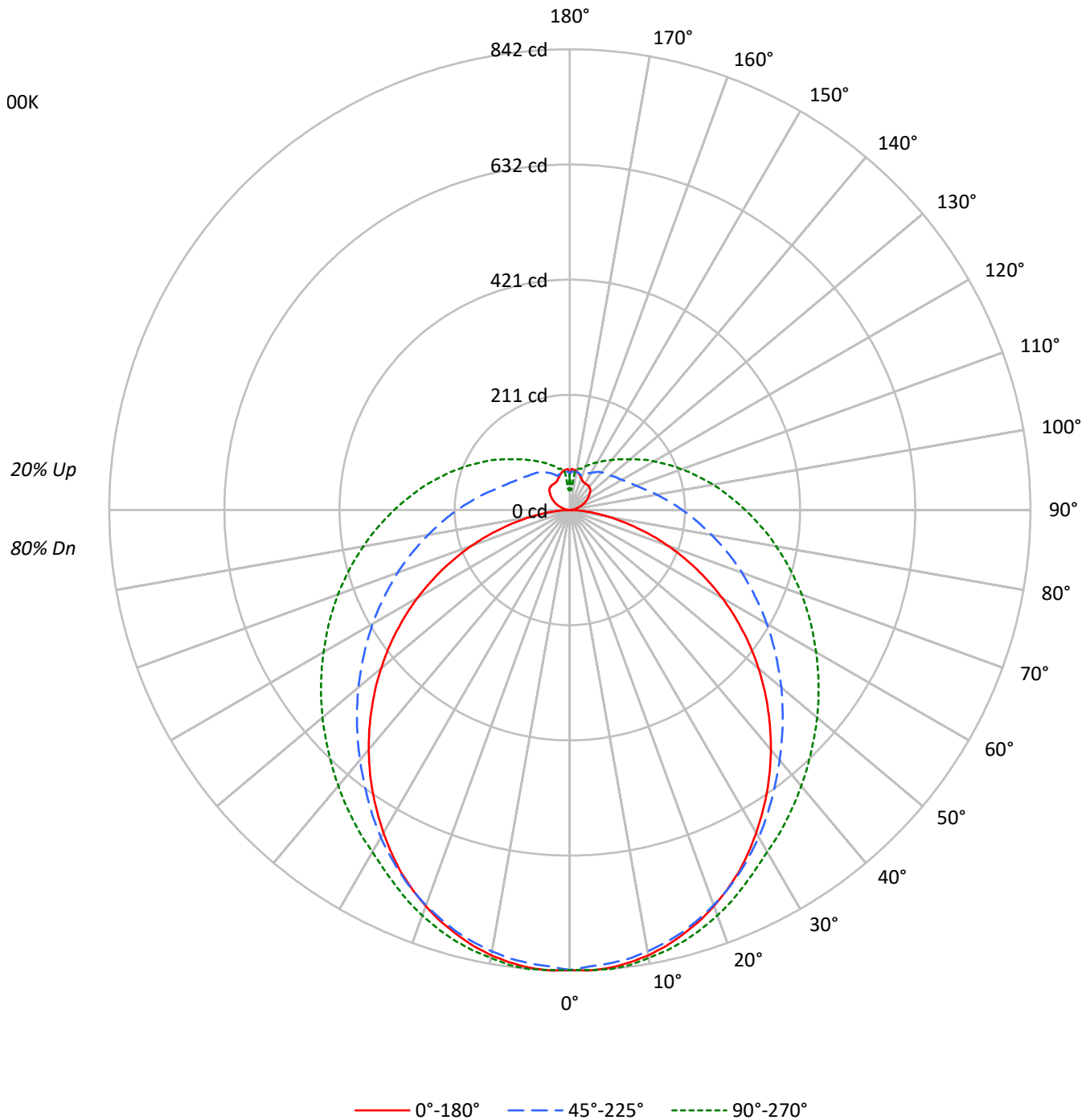
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3536.1 lumens
Efficiency: N/A
Efficacy: 105.6 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°	2983	2983	2983
5°	2985	2861	2863
10°	2963	2754	2731
15°	2927	2645	2608
20°	2881	2529	2483
25°	2825	2412	2357
30°	2751	2294	2246
35°	2674	2172	2163
40°	2592	2062	2089
45°	2503	1964	2022
50°	2411	1878	1971
55°	2304	1798	1926
60°	2183	1733	1893
65°	2035	1677	1874
70°	1851	1644	1868
75°	1599	1622	1876
80°	1296	1629	1906
85°	903	1681	1969

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2503 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.5	2.2
10°-20°	226.8	6.4
20°-30°	340.5	9.6
30°-40°	409.5	11.6
40°-50°	433.8	12.3
50°-60°	417.8	11.8
60°-70°	369.8	10.5
70°-80°	303.3	8.6
80°-90°	235.4	6.7
90°-100°	182.7	5.2
100°-110°	144.7	4.1
110°-120°	115.3	3.3
120°-130°	91.6	2.6
130°-140°	71.5	2.0
140°-150°	52.6	1.5
150°-160°	34.8	1.0
160°-170°	20.0	0.6
170°-180°	6.4	0.2
0°-30°	646.9	18.3
0°-40°	1056.3	29.9
0°-60°	1907.9	54.0
0°-90°	2816.3	79.6
90°-120°	442.7	12.5
90°-150°	658.5	18.6
90°-180°	720.0	20.4
0°-180°	3536.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	841	841	841	841	841	
5°	840	841	832	838	842	80
15°	802	803	798	810	814	226
25°	730	733	733	751	756	336
35°	629	637	644	678	691	393
45°	512	524	550	602	624	395
55°	386	406	459	527	555	346
65°	256	291	374	452	486	253
75°	128	192	298	382	417	137
85°	29	116	233	318	351	33
90°	1	91	206	288	321	2
95°	4	75	182	260	292	4
105°	14	61	143	213	241	15
115°	29	58	119	174	197	28
125°	42	61	104	143	161	37
135°	53	65	94	120	131	40
145°	56	64	85	103	110	35
155°	57	66	73	88	93	27
165°	67	71	69	69	78	19
175°	74	74	70	58	39	7
180°	65	65	65	65	65	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	840.7	840.7	840.7	840.7	840.7	840.7	840.7	840.7	840.7	840.7	840.7
2.5°	842.3	841.5	843.1	844.7	849.5	843.1	846.3	837.5	838.3	839.1	835.1
5°	839.9	837.5	839.9	841.5	845.5	840.7	843.9	834.3	835.1	836.7	831.9
7.5°	834.3	831.9	833.5	835.1	839.1	834.3	838.3	828.7	830.3	831.1	827.1
10°	826.3	823.1	824.7	827.1	830.3	826.3	829.5	820.7	821.5	823.1	819.1
12.5°	815.9	812.7	814.3	815.9	819.9	815.9	819.1	810.3	811.9	813.5	809.5
15°	802.3	799.1	800.7	802.3	805.5	803.1	806.3	797.5	799.1	802.3	798.3
17.5°	787.9	783.1	784.7	787.1	790.3	788.7	791.1	783.9	784.7	787.9	783.9
20°	770.3	765.5	767.1	769.5	772.7	771.9	773.5	767.1	768.7	772.7	768.7
22.5°	751.1	746.3	747.9	751.1	753.5	753.5	754.3	749.5	751.1	755.1	751.9
25°	730.3	725.5	727.1	730.3	732.7	732.7	734.3	729.5	731.9	735.9	732.7
27.5°	706.3	703.9	703.9	707.1	708.7	710.3	711.1	707.1	710.3	714.3	711.9
30°	681.5	678.3	679.9	683.9	683.9	687.1	687.1	683.9	687.9	692.7	691.1
32.5°	655.1	652.7	653.5	658.3	658.3	662.3	661.5	659.9	663.9	669.5	667.9
35°	628.7	626.3	627.1	631.9	631.9	636.7	635.1	635.1	639.1	645.5	643.9
37.5°	600.7	599.1	599.9	604.7	604.7	609.5	607.9	608.7	613.5	620.7	619.9
40°	571.9	570.3	571.9	575.9	577.5	581.5	579.9	581.5	587.9	594.3	596.7
42.5°	542.3	541.5	543.1	547.1	548.7	552.7	551.9	554.3	560.7	570.3	573.5
45°	511.9	511.9	513.5	517.5	519.1	523.9	523.1	526.3	534.3	544.7	550.3
47.5°	481.5	482.3	483.1	487.9	487.9	495.9	493.5	498.3	508.7	520.7	527.1
50°	450.3	451.9	452.7	456.7	458.3	465.5	463.9	471.9	483.1	495.9	504.7
52.5°	419.1	420.7	422.3	425.5	427.1	435.9	434.3	444.7	458.3	471.9	481.5
55°	386.3	389.5	390.3	394.3	396.7	405.5	405.5	417.5	431.9	447.1	459.1
57.5°	354.4	357.6	358.4	363.2	366.4	376.8	378.4	391.9	407.9	423.1	437.5
60°	321.6	325.6	326.4	331.2	336.8	348.0	350.4	365.6	383.1	399.1	415.9
62.5°	288.8	292.8	294.4	299.2	308.0	319.2	323.2	340.8	359.2	376.8	395.1
65°	256.0	260.0	262.4	268.8	279.2	291.2	296.8	315.2	336.0	354.4	373.6
67.5°	223.2	228.0	231.2	239.2	252.8	265.6	271.2	292.0	313.6	333.6	353.6
70°	191.2	196.0	200.0	210.4	226.4	239.2	246.4	268.8	291.2	312.8	335.2
72.5°	160.0	164.8	170.4	183.2	200.8	215.2	223.2	246.4	271.2	292.8	316.0
75°	128.0	133.6	140.0	157.6	177.6	192.0	200.8	225.6	251.2	272.8	297.6
77.5°	99.2	104.8	114.4	132.0	154.4	170.4	180.0	206.4	232.8	254.4	280.0
80°	72.8	78.4	91.2	110.4	133.6	148.8	160.8	188.0	215.2	237.6	263.2
82.5°	49.6	55.2	70.4	91.2	116.0	131.2	142.4	171.2	198.4	221.6	247.2
85°	28.8	36.8	52.8	75.2	100.8	116.0	127.2	156.8	183.2	206.4	232.8
87.5°	12.8	22.4	40.0	62.4	88.0	102.4	114.4	141.6	169.6	192.8	219.2
90°	0.8	12.8	31.2	52.8	77.6	91.2	102.4	129.6	156.0	180.0	205.6
92.5°	1.6	8.8	25.6	45.6	68.8	82.4	93.6	119.2	144.0	168.8	193.6
95°	4.0	8.8	22.4	40.8	62.4	75.2	85.6	110.4	133.6	157.6	181.6
97.5°	6.4	9.6	21.6	38.4	57.6	69.6	79.2	102.4	125.6	147.2	171.2
100°	8.8	12.0	21.6	36.8	54.4	65.6	74.4	96.0	117.6	137.6	161.6
102.5°	11.2	14.4	23.2	36.8	52.8	62.4	71.2	91.2	111.2	129.6	152.0
105°	14.4	16.8	24.8	36.8	51.2	60.8	68.0	86.4	105.6	123.2	143.2
107.5°	17.6	19.2	26.4	37.6	51.2	59.2	66.4	83.2	100.8	116.8	136.0
110°	21.6	22.4	28.8	39.2	51.2	58.4	64.8	80.8	96.8	112.0	129.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	24.8	24.8	31.2	40.8	51.2	58.4	64.0	78.4	93.6	107.2	124.0
115°	28.8	28.8	33.6	42.4	52.0	58.4	64.0	77.6	91.2	103.2	119.2
117.5°	32.0	32.0	36.8	44.0	53.6	59.2	64.0	76.0	88.8	100.0	114.4
120°	35.2	35.2	38.4	45.6	54.4	60.0	64.0	75.2	86.4	97.6	110.4
122.5°	38.4	38.4	40.8	48.0	55.2	60.0	64.0	74.4	84.8	94.4	106.4
125°	41.6	41.6	43.2	49.6	56.8	60.8	64.8	74.4	84.0	92.0	104.0
127.5°	44.8	44.0	46.4	52.0	57.6	61.6	65.6	74.4	82.4	90.4	100.8
130°	47.2	46.4	49.6	53.6	59.2	62.4	65.6	73.6	81.6	88.8	97.6
132.5°	50.4	48.8	52.8	54.4	60.8	64.0	66.4	73.6	80.8	87.2	96.0
135°	52.8	51.2	55.2	56.8	61.6	64.8	67.2	73.6	80.0	86.4	93.6
137.5°	54.4	53.6	57.6	59.2	62.4	65.6	68.0	73.6	79.2	84.8	92.0
140°	55.2	54.4	57.6	60.8	62.4	65.6	67.2	72.8	78.4	83.2	89.6
142.5°	56.0	56.0	58.4	61.6	62.4	64.8	67.2	72.0	76.8	80.8	88.0
145°	56.0	56.0	58.4	62.4	63.2	64.0	65.6	70.4	74.4	78.4	84.8
147.5°	56.0	56.0	59.2	62.4	64.0	64.8	64.0	68.8	72.8	76.0	81.6
150°	56.0	56.0	59.2	62.4	64.8	65.6	64.8	67.2	70.4	73.6	78.4
152.5°	56.8	56.8	59.2	62.4	64.8	65.6	65.6	65.6	68.0	71.2	76.0
155°	56.8	57.6	59.2	64.0	65.6	66.4	66.4	66.4	65.6	68.8	72.8
157.5°	59.2	60.0	60.8	64.8	66.4	67.2	67.2	67.2	66.4	65.6	69.6
160°	61.6	62.4	63.2	66.4	68.0	68.8	68.8	68.8	67.2	66.4	66.4
162.5°	64.0	65.6	65.6	67.2	68.8	69.6	69.6	70.4	68.8	68.0	67.2
165°	67.2	68.0	68.0	68.8	70.4	71.2	70.4	71.2	70.4	69.6	68.8
167.5°	69.6	70.4	70.4	71.2	71.2	72.0	72.0	72.0	71.2	70.4	70.4
170°	72.0	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.0	70.4	70.4
172.5°	73.6	74.4	74.4	73.6	73.6	73.6	73.6	72.8	71.2	70.4	70.4
175°	74.4	75.2	75.2	74.4	73.6	73.6	73.6	72.8	71.2	70.4	70.4
177.5°	75.2	76.0	75.2	75.2	73.6	73.6	73.6	73.6	72.0	71.2	70.4
180°	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	840.7	840.7	840.7	840.7	840.7	840.7	840.7	840.7	840.7	840.7
2.5°	839.9	830.3	836.7	837.5	840.7	837.5	839.9	837.5	843.9	841.5
5°	836.7	827.9	833.5	834.3	838.3	834.3	838.3	836.7	844.7	842.3
7.5°	831.1	823.9	828.7	829.5	834.3	830.3	834.3	832.7	842.3	839.1
10°	823.1	817.5	822.3	823.1	827.9	823.9	827.1	825.5	835.9	831.1
12.5°	814.3	809.5	813.5	814.3	819.9	815.9	819.9	818.3	828.7	823.9
15°	801.5	799.1	803.1	804.7	810.3	807.1	811.1	809.5	820.7	814.3
17.5°	788.7	787.1	791.1	792.7	799.1	795.1	799.1	797.5	808.7	802.3
20°	772.7	771.9	775.9	778.3	783.9	779.9	784.7	783.1	795.1	788.7
22.5°	755.9	755.9	759.1	761.5	767.1	763.9	768.7	767.9	779.9	773.5
25°	737.5	738.3	741.5	744.7	751.1	748.7	752.7	752.7	763.9	755.9
27.5°	716.7	720.7	723.1	727.1	732.7	730.3	734.3	735.1	746.3	738.3
30°	695.1	700.7	703.1	707.9	712.7	712.7	716.7	718.3	729.5	721.5
32.5°	672.7	679.1	682.3	688.7	695.1	695.1	700.7	703.1	714.3	707.1
35°	650.3	659.1	663.1	671.1	677.5	678.3	683.9	687.1	698.3	691.1
37.5°	628.7	639.9	643.9	653.5	659.1	660.7	667.1	671.1	681.5	675.1
40°	606.3	619.9	624.7	635.1	639.9	643.1	649.5	654.3	663.9	658.3
42.5°	584.7	599.9	604.7	615.9	621.5	624.7	631.1	637.5	647.1	641.5
45°	563.1	579.9	585.5	597.5	602.3	607.1	614.3	619.9	628.7	623.9
47.5°	542.3	559.9	565.5	578.3	583.9	589.5	595.9	603.9	611.9	607.1
50°	520.7	539.1	546.3	559.9	564.7	571.1	579.1	586.3	594.3	590.3
52.5°	499.9	519.1	526.3	540.7	546.3	552.7	560.7	568.7	575.9	572.7
55°	477.5	498.3	506.3	521.5	527.1	533.5	542.3	551.1	557.5	555.1
57.5°	456.7	478.3	486.3	503.1	507.9	515.9	524.7	534.3	539.9	537.5
60°	435.9	457.5	467.1	483.9	489.5	497.5	506.3	516.7	521.5	519.9
62.5°	415.1	437.5	447.9	465.5	470.3	479.1	489.5	498.3	503.1	502.3
65°	395.9	417.5	429.5	447.1	451.9	461.5	471.1	480.7	485.5	485.5
67.5°	376.0	399.1	411.1	429.5	433.5	443.9	454.3	463.9	467.9	467.9
70°	357.6	380.0	393.5	411.9	415.9	425.5	436.7	447.1	450.3	451.1
72.5°	339.2	361.6	376.0	395.1	399.1	408.7	419.1	430.3	432.7	433.5
75°	321.6	344.0	358.4	377.6	381.5	391.1	402.3	412.7	415.9	416.7
77.5°	304.0	326.4	342.4	360.8	364.8	374.4	385.5	395.9	398.3	399.9
80°	288.0	309.6	324.8	344.8	348.8	358.4	368.8	379.2	380.8	383.1
82.5°	272.0	293.6	309.6	328.8	332.8	342.4	352.8	363.2	364.8	368.0
85°	256.8	278.4	294.4	312.8	317.6	326.4	337.6	347.2	348.8	351.2
87.5°	243.2	263.2	280.0	297.6	302.4	311.2	322.4	332.0	332.8	336.0
90°	228.8	248.8	265.6	283.2	288.0	296.0	307.2	316.8	318.4	320.8
92.5°	216.8	235.2	252.8	269.6	273.6	282.4	292.8	302.4	304.0	306.4
95°	204.0	222.4	240.0	256.0	260.0	268.8	278.4	288.0	289.6	292.0
97.5°	192.8	210.4	227.2	243.2	247.2	255.2	265.6	274.4	276.0	279.2
100°	182.4	199.2	216.8	231.2	235.2	243.2	252.8	261.6	263.2	266.4
102.5°	172.8	188.8	205.6	219.2	224.0	231.2	240.8	248.8	250.4	252.8
105°	164.0	179.2	195.2	208.0	212.8	220.0	228.8	236.8	238.4	240.8
107.5°	155.2	169.6	184.8	197.6	201.6	208.0	216.8	224.8	226.4	229.6
110°	147.2	161.6	176.0	188.0	192.8	197.6	206.4	213.6	215.2	217.6



TEST NUMBER: P895524

CATALOG NUMBER: 8TMB-SC3-RNDU-UNV-CC93-LOW-4000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	140.0	152.8	167.2	178.4	182.4	188.0	195.2	202.4	204.0	207.2
115°	133.6	145.6	160.0	170.4	173.6	178.4	186.4	192.8	194.4	196.8
117.5°	128.0	138.4	151.2	161.6	165.6	169.6	176.8	182.4	184.8	186.4
120°	123.2	132.8	144.0	153.6	158.4	161.6	168.0	173.6	176.0	177.6
122.5°	118.4	127.2	137.6	146.4	150.4	152.8	160.0	164.8	167.2	169.6
125°	114.4	122.4	132.0	139.2	143.2	145.6	152.0	156.8	159.2	160.8
127.5°	110.4	117.6	127.2	132.8	136.8	138.4	144.0	148.8	151.2	152.0
130°	106.4	113.6	121.6	127.2	130.4	132.8	137.6	140.8	143.2	144.0
132.5°	103.2	109.6	116.8	122.4	125.6	126.4	131.2	134.4	136.8	137.6
135°	100.8	105.6	112.8	117.6	120.0	121.6	125.6	128.0	130.4	131.2
137.5°	97.6	102.4	108.8	112.0	115.2	116.0	120.0	122.4	124.8	125.6
140°	95.2	99.2	104.8	108.0	111.2	111.2	114.4	116.8	119.2	119.2
142.5°	92.8	96.8	101.6	104.8	107.2	107.2	110.4	112.0	114.4	114.4
145°	89.6	93.6	98.4	100.8	103.2	103.2	105.6	107.2	109.6	109.6
147.5°	86.4	90.4	95.2	96.8	99.2	99.2	101.6	103.2	104.8	104.8
150°	82.4	85.6	91.2	93.6	96.0	96.0	97.6	99.2	100.8	100.8
152.5°	79.2	81.6	86.4	89.6	92.0	92.0	93.6	95.2	96.8	96.8
155°	75.2	77.6	81.6	85.6	88.0	88.8	90.4	91.2	92.8	92.8
157.5°	72.0	74.4	77.6	80.8	83.2	84.8	87.2	88.0	88.8	88.8
160°	68.0	69.6	72.8	76.0	78.4	80.0	84.0	84.8	85.6	85.6
162.5°	66.4	66.4	68.0	70.4	72.8	73.6	77.6	80.8	82.4	81.6
165°	67.2	66.4	66.4	67.2	68.8	69.6	72.0	76.8	78.4	77.6
167.5°	68.8	67.2	66.4	66.4	68.0	68.0	70.4	74.4	79.2	77.6
170°	68.8	66.4	64.8	64.8	65.6	65.6	67.2	69.6	74.4	75.2
172.5°	68.0	66.4	64.0	60.8	61.6	60.8	60.0	61.6	62.4	70.4
175°	68.8	66.4	64.0	60.0	58.4	56.0	52.0	48.8	48.0	39.2
177.5°	68.0	65.6	62.4	59.2	57.6	54.4	49.6	44.0	40.8	36.0
180°	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8



TEST NUMBER: P895524
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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	10.75	12.06	11.39	12.73	13.50	14.37	15.69	15.02	16.35	17.12
	3H	12.10	13.30	12.75	13.97	14.78	17.33	18.53	17.98	19.20	20.00
	4H	12.50	13.64	13.18	14.33	15.14	18.84	19.98	19.51	20.66	21.48
	6H	12.72	13.78	13.41	14.48	15.31	20.45	21.51	21.13	22.21	23.04
	8H	12.75	13.77	13.45	14.49	15.32	21.30	22.32	21.99	23.03	23.87
	12H	12.76	13.73	13.46	14.44	15.31	22.24	23.22	22.95	23.93	24.79
4H	2H	11.91	13.05	12.59	13.74	14.55	14.69	15.83	15.37	16.52	17.33
	3H	13.55	14.53	14.24	15.25	16.08	17.88	18.85	18.56	19.57	20.41
	4H	14.12	15.02	14.82	15.75	16.61	19.55	20.46	20.26	21.18	22.04
	6H	14.46	15.26	15.18	16.01	16.87	21.37	22.17	22.10	22.92	23.79
	8H	14.53	15.28	15.26	16.03	16.91	22.35	23.10	23.07	23.85	24.73
	12H	14.56	15.24	15.31	16.01	16.90	23.43	24.12	24.18	24.89	25.78
8H	4H	15.23	15.98	15.95	16.72	17.61	19.73	20.48	20.45	21.22	22.11
	6H	15.83	16.48	16.59	17.26	18.15	21.72	22.36	22.48	23.15	24.03
	8H	16.03	16.61	16.80	17.40	18.30	22.84	23.42	23.61	24.21	25.11
	12H	16.14	16.66	16.91	17.44	18.40	24.12	24.64	24.89	25.41	26.37
12H	4H	15.59	16.28	16.34	17.05	17.94	19.72	20.40	20.47	21.17	22.06
	6H	16.37	16.95	17.14	17.74	18.64	21.75	22.33	22.51	23.12	24.02
	8H	16.70	17.22	17.47	17.99	18.95	22.93	23.45	23.70	24.23	25.18