

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: HALO COMMERCIAL

Report Number: P775767

Luminaire Tested: HCDJBS510CSD-HCD6TRC-1000lm-3500K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775767
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2310613A001)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL510CSD-HCD6TRC-1000lm-3500K
Description: 6 INCH ROUND MEDIUM SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

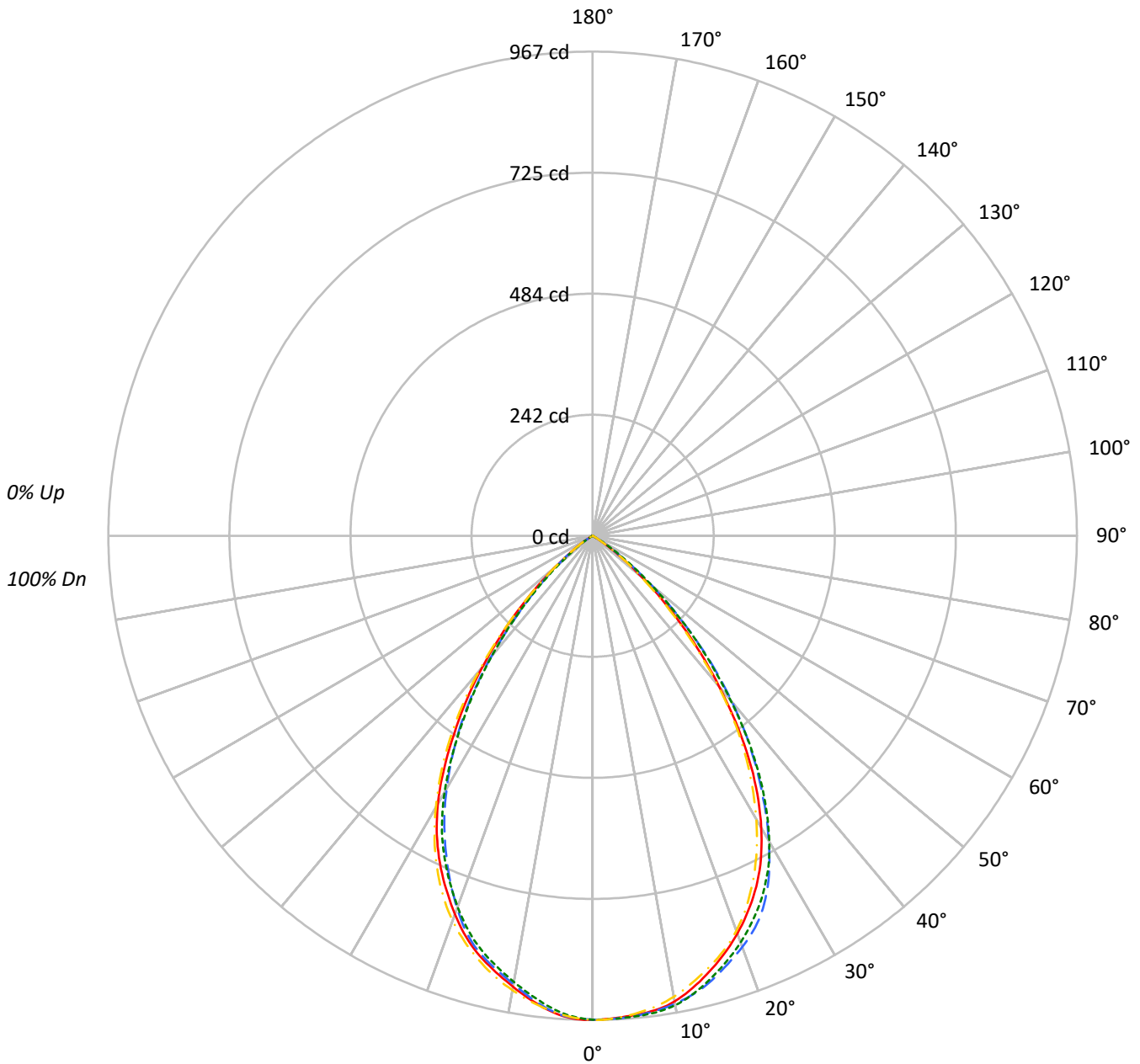
Lumens per Lamp: N/A
Luminaire Lumens: 1221.6 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.05 / 1.05
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P775767
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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92					92			
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84					84			
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77					77			
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70					70			
5	89	80	73	68	87	79	72	68	77	71	67	75	70	67	73	69	66	64					64			
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	68	64	61	59					59			
7	79	68	62	57	77	68	61	57	66	61	57	65	60	56	64	59	56	54					54			
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50					50			
9	70	60	53	49	69	59	53	48	58	52	48	57	52	48	56	51	48	46					46			
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43					43			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	52989	52989	52989	52989
5°	52883	53038	52476	52080
10°	52560	52994	50918	50366
15°	51130	51913	49314	48621
20°	49302	50416	46904	45988
25°	46763	48299	43636	42480
30°	42627	44640	39101	37442
35°	36413	38688	32257	30236
40°	28146	30657	24517	22435
45°	19452	22018	16258	14319
50°	11010	13177	8443	6993
55°	4138	5534	3355	2638
60°	296	954	132	164
65°	39	52	39	26
70°	16	16	16	16
75°	0	21	0	0
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 22770 cd/sqm



TEST NUMBER: P775767

CATALOG NUMBER: HCDJBL510CSD-HCD6TRC-1000lm-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.4	7.4
10°-20°	249.1	20.4
20°-30°	342.2	28.0
30°-40°	318.2	26.0
40°-50°	179.7	14.7
50°-60°	41.5	3.4
60°-70°	0.5	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	681.7	55.8
0°-40°	999.9	81.9
0°-60°	1221.0	100.0
0°-90°	1221.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1221.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	967	967	967	967	967	
5°	961	964	954	946	961	91
15°	901	915	869	857	901	253
25°	773	798	721	702	773	353
35°	544	578	482	452	544	336
45°	251	284	210	185	251	194
55°	43	58	35	28	43	45
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6
0.5°	966.9	966.3	966.3	966.8	966.2	966.8	967.2	967.4	967.1	966.3	965.9
1°	966.4	966.3	966.3	966.8	966.3	966.9	967.1	967.2	967.0	966.3	965.7
1.5°	965.8	965.8	966.1	966.8	966.1	966.9	966.6	966.8	966.4	965.8	965.1
2°	965.3	965.5	965.9	966.8	966.0	966.8	965.9	965.9	965.8	965.3	964.3
2.5°	964.7	965.2	965.7	966.4	965.8	966.2	965.1	964.9	964.7	964.3	963.2
3°	963.9	964.7	965.2	966.0	965.5	965.7	964.1	963.5	963.1	963.0	961.9
3.5°	963.1	964.2	964.7	965.7	965.2	965.1	962.9	961.9	961.2	961.2	960.0
4°	962.5	963.6	964.2	965.2	964.7	964.5	961.7	959.9	959.1	958.9	957.8
4.5°	961.7	962.9	963.5	964.7	964.3	963.9	960.1	957.7	956.5	956.3	955.0
5°	961.0	962.3	962.8	964.0	963.8	963.1	958.7	955.4	953.6	953.4	951.9
5.5°	960.3	961.5	962.0	963.2	963.2	962.4	956.9	952.7	950.4	950.0	948.5
6°	959.3	960.5	961.0	962.5	962.8	961.6	955.1	950.0	947.2	946.5	944.7
6.5°	958.4	959.4	959.9	961.6	962.0	960.8	953.3	947.0	943.4	942.6	940.8
7°	957.1	958.3	958.7	960.6	961.3	959.8	951.4	944.0	939.7	938.8	936.6
7.5°	955.7	956.8	957.4	959.5	960.4	958.9	949.1	940.8	935.8	934.6	932.2
8°	954.1	955.1	956.0	958.4	959.3	957.7	946.7	937.3	931.7	930.4	927.7
8.5°	952.2	953.3	954.4	956.8	957.8	956.2	944.1	933.9	927.5	925.9	923.2
9°	949.9	951.2	952.8	955.5	956.1	954.5	941.3	930.4	923.4	921.8	918.7
9.5°	947.2	948.7	951.0	953.7	954.1	952.5	938.0	927.0	919.1	917.4	914.2
10°	944.2	946.2	949.0	951.8	952.0	950.0	934.6	923.2	914.7	912.9	909.8
10.5°	940.8	943.3	947.1	949.7	949.3	947.2	931.2	919.3	910.3	908.4	905.1
11°	937.0	940.1	944.7	947.4	946.3	944.0	927.6	915.4	905.8	903.8	900.5
11.5°	933.3	936.6	942.4	945.0	943.1	940.3	923.5	911.6	901.5	899.3	896.1
12°	929.0	933.1	939.6	942.4	939.5	936.4	919.5	907.6	897.1	894.6	891.8
12.5°	924.7	929.2	936.9	939.5	935.9	932.1	915.1	903.3	892.6	889.6	887.5
13°	920.1	925.3	933.7	936.6	931.9	927.9	911.2	899.0	888.1	884.8	883.2
13.5°	915.7	921.1	930.6	933.6	927.8	923.4	906.6	894.5	883.4	879.5	878.7
14°	910.7	916.8	927.1	930.4	923.5	918.7	902.5	889.9	878.8	874.1	874.1
14.5°	906.0	912.7	923.2	927.0	919.1	913.8	897.8	884.8	874.0	868.4	869.2
15°	900.9	908.1	919.1	923.5	914.7	908.8	893.4	879.7	868.9	862.8	864.3
15.5°	896.0	903.5	914.9	919.6	910.2	904.0	888.6	874.5	863.8	856.8	859.0
16°	890.9	899.0	910.6	915.7	905.4	899.1	884.2	868.7	858.5	850.7	853.4
16.5°	885.7	894.3	906.0	911.4	900.7	894.1	879.2	862.9	852.6	844.6	847.1
17°	880.2	889.5	901.6	907.3	895.8	889.0	874.2	857.2	846.5	837.9	840.4
17.5°	875.0	884.8	897.0	902.7	890.7	883.9	869.2	851.0	840.1	830.9	833.3
18°	869.3	880.0	892.4	898.4	885.5	878.7	863.7	844.9	833.7	824.3	825.6
18.5°	863.6	875.2	887.9	893.8	880.4	873.5	858.3	838.2	826.5	817.1	817.4
19°	857.5	870.3	883.3	889.1	875.0	868.3	852.4	831.8	819.4	809.9	809.0
19.5°	851.3	865.1	878.7	884.3	869.8	862.7	846.0	825.2	811.8	802.3	800.4
20°	845.1	859.8	873.8	879.0	864.2	857.1	839.5	818.1	804.0	794.9	791.5
20.5°	838.6	854.2	869.0	873.7	858.1	850.9	832.5	810.8	796.2	787.1	782.2
21°	832.1	848.4	863.9	868.2	852.2	844.6	825.4	803.6	788.3	779.2	772.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	811.3	829.3	847.3	850.0	833.6	824.3	802.0	780.9	763.9	755.1	744.8
23°	804.2	822.3	840.8	843.0	826.7	816.8	793.7	772.9	755.8	747.0	734.8
23.5°	796.7	815.0	834.3	836.1	820.1	809.4	785.0	765.1	747.8	738.0	724.7
24°	789.0	807.5	826.8	828.5	813.2	801.6	776.3	757.2	739.1	729.0	714.5
24.5°	781.0	799.8	819.1	820.4	805.9	793.6	767.6	749.3	730.3	719.9	704.2
25°	773.1	791.7	810.9	812.3	798.5	785.5	758.8	740.7	721.4	710.5	694.1
25.5°	764.7	783.0	802.2	803.7	790.9	776.9	750.0	731.9	712.2	700.9	683.7
26°	755.7	774.2	792.8	794.7	782.4	768.3	739.5	722.7	702.9	691.5	673.4
26.5°	746.7	765.3	783.3	785.4	773.9	759.7	729.4	713.1	693.4	681.4	663.0
27°	737.4	755.7	773.2	775.6	765.4	751.2	719.6	703.6	683.4	671.4	652.4
27.5°	727.7	745.5	762.7	765.7	756.9	742.2	708.9	693.6	673.5	660.9	641.3
28°	717.2	735.1	751.3	755.1	748.3	732.0	698.5	683.1	663.3	649.9	630.2
28.5°	707.0	724.2	740.0	744.3	738.1	722.4	687.6	672.2	652.4	638.4	618.5
29°	696.0	712.9	728.0	732.9	727.6	711.6	676.6	661.2	641.2	626.8	607.1
29.5°	684.8	702.0	716.1	721.4	716.5	701.1	665.1	649.7	629.4	615.0	594.9
30°	673.4	689.7	703.5	709.6	705.2	690.1	653.8	638.1	617.7	602.9	582.7
30.5°	661.7	678.1	691.2	697.9	693.6	679.1	641.9	626.0	605.3	590.4	570.3
31°	649.6	666.0	678.2	685.2	681.9	667.3	629.9	613.6	592.6	577.8	558.2
31.5°	637.0	653.6	665.3	672.7	669.6	655.8	617.8	601.1	579.7	564.9	545.8
32°	624.7	640.7	652.1	659.6	657.2	643.8	605.8	588.5	566.2	552.0	533.4
32.5°	612.1	627.9	639.0	646.5	644.6	631.9	593.2	575.4	552.5	538.3	520.8
33°	599.2	614.9	625.4	633.2	631.8	618.9	580.8	562.1	538.7	524.5	508.4
33.5°	585.8	601.7	612.6	620.1	618.9	606.3	568.2	548.8	524.7	510.8	495.9
34°	572.6	588.1	599.0	606.5	605.3	593.2	555.6	535.1	510.5	496.6	483.2
34.5°	558.5	574.5	585.8	593.2	591.8	580.0	542.7	521.6	496.0	482.9	470.1
35°	544.1	560.2	572.3	579.7	578.1	566.1	529.9	507.7	482.0	468.9	456.7
35.5°	529.6	546.1	558.9	566.2	564.2	552.5	517.0	494.0	468.0	454.7	443.4
36°	515.2	531.9	545.6	552.7	550.1	538.3	503.5	480.0	454.3	440.9	429.7
36.5°	500.2	517.4	531.7	539.0	535.3	524.1	489.5	466.1	440.4	426.8	415.7
37°	485.0	503.3	518.4	525.1	520.5	509.9	475.7	452.3	426.6	412.9	401.3
37.5°	469.5	488.4	504.9	511.1	505.5	495.3	461.4	438.4	412.9	399.0	387.2
38°	454.0	473.6	490.9	497.0	490.3	480.3	447.2	424.2	399.3	384.7	372.8
38.5°	438.5	458.8	476.7	482.3	474.9	465.2	432.7	410.2	385.6	370.8	358.7
39°	422.9	444.0	462.4	468.2	459.5	450.2	417.8	396.1	371.3	356.7	344.3
39.5°	408.1	429.2	448.2	453.6	443.9	434.9	403.2	382.0	357.0	342.7	329.5
40°	393.3	413.7	433.5	439.3	428.4	419.2	388.3	367.7	342.6	328.4	315.4
40.5°	378.8	398.6	419.0	424.5	413.5	404.0	373.3	353.6	328.2	314.5	300.8
41°	364.4	383.6	404.2	409.7	398.4	388.7	357.9	339.5	314.0	300.8	286.5
41.5°	350.0	366.8	389.6	394.7	383.8	373.4	342.5	325.3	299.8	286.9	272.3
42°	335.7	353.3	375.3	379.8	369.1	358.5	327.3	311.0	286.5	273.4	258.5
42.5°	321.3	339.8	360.6	365.0	355.2	343.6	312.6	297.0	273.7	260.0	245.6
43°	306.9	326.4	345.8	350.4	341.0	329.2	297.6	282.1	260.8	246.8	232.5
43.5°	292.6	312.9	331.1	341.2	326.5	314.7	282.8	268.0	248.1	233.9	220.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	250.9	271.1	287.3	293.7	284.0	271.5	241.5	226.8	209.7	197.1	184.6
45.5°	237.4	257.2	272.6	278.0	269.7	257.6	228.1	213.1	197.3	184.9	173.7
46°	224.7	243.6	257.9	264.0	256.0	243.9	214.7	200.0	185.1	173.4	162.8
46.5°	211.6	230.1	243.7	250.2	243.0	230.5	202.0	187.3	173.1	162.3	152.6
47°	198.7	217.1	229.7	236.3	229.6	217.4	189.1	174.5	161.3	151.4	142.5
47.5°	185.9	204.0	216.1	222.6	216.6	205.0	176.9	162.8	150.5	140.8	133.3
48°	174.0	191.1	202.6	209.1	204.1	192.7	165.1	150.7	139.2	130.7	124.0
48.5°	162.0	178.4	189.4	196.0	191.4	180.7	153.7	139.6	128.3	121.1	115.4
49°	150.8	166.3	176.7	183.2	178.7	169.2	142.5	128.7	117.6	111.8	106.9
49.5°	139.6	154.2	164.2	170.4	166.2	158.1	132.2	118.8	107.8	103.0	99.5
50°	129.1	142.3	152.5	158.4	154.5	147.1	121.9	109.0	99.0	95.2	92.1
50.5°	118.5	130.8	141.0	146.4	142.8	136.3	112.4	100.9	90.3	87.5	84.8
51°	108.7	119.6	129.7	134.9	131.8	126.0	103.4	93.0	81.6	79.8	77.4
51.5°	99.1	108.7	118.9	123.7	121.1	116.0	95.5	84.9	72.9	72.0	70.1
52°	89.6	98.7	108.5	113.0	110.7	106.3	87.5	76.8	65.8	65.1	63.5
52.5°	80.5	89.1	98.6	103.1	101.6	97.5	79.5	68.7	59.5	58.8	57.4
53°	72.1	80.2	89.1	93.3	92.6	88.7	71.5	62.1	53.9	52.9	51.5
53.5°	64.0	71.6	79.8	83.7	83.4	80.0	64.7	56.2	48.9	47.4	45.9
54°	56.4	63.8	71.4	74.9	74.4	71.2	58.0	50.5	43.9	42.1	40.3
54.5°	49.5	56.3	63.1	66.8	65.4	63.7	52.0	45.2	39.5	37.3	35.2
55°	43.3	49.4	55.7	59.2	57.9	56.7	46.0	40.2	35.1	32.6	30.3
55.5°	37.5	43.1	48.6	51.9	50.9	49.9	40.4	35.4	30.9	28.1	25.7
56°	32.9	37.0	41.9	45.1	44.5	43.7	35.2	30.9	26.8	23.9	21.3
56.5°	28.3	32.3	35.7	39.1	38.5	37.9	30.2	26.6	22.9	20.0	17.5
57°	23.6	27.7	31.0	34.3	32.9	32.5	25.5	22.5	19.2	16.5	14.4
57.5°	19.1	23.0	26.3	29.5	27.8	27.5	21.1	18.7	15.9	13.1	11.2
58°	14.4	18.3	21.7	24.9	23.0	22.8	17.4	15.3	12.4	9.6	8.0
58.5°	10.3	13.7	17.0	20.1	19.0	18.8	14.2	12.0	9.1	6.1	4.9
59°	6.3	9.6	12.9	15.4	15.5	15.3	11.0	8.7	5.8	2.7	1.7
59.5°	3.4	5.9	8.7	11.2	12.1	12.0	7.9	5.4	2.5	1.5	1.1
60°	2.7	3.1	5.2	7.2	8.7	8.6	4.7	2.1	1.2	1.0	0.9
60.5°	2.1	2.5	2.7	4.0	5.3	5.3	1.5	1.1	0.9	0.8	0.8
61°	1.3	2.0	2.2	3.2	2.0	1.9	0.9	0.8	0.8	0.7	0.7
61.5°	0.7	1.3	1.7	2.4	1.1	1.0	0.7	0.7	0.7	0.6	0.6
62°	0.6	0.8	1.2	1.7	0.8	0.8	0.6	0.6	0.6	0.6	0.5
62.5°	0.5	0.7	0.8	0.8	0.7	0.7	0.5	0.5	0.5	0.5	0.5
63°	0.5	0.6	0.7	0.7	0.6	0.6	0.5	0.5	0.4	0.4	0.4
63.5°	0.4	0.5	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.4
64°	0.3	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.3
64.5°	0.3	0.4	0.4	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3
65°	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3
65.5°	0.2	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2
66°	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P775767

CATALOG NUMBER: HCDJBL510CSD-HCD6TRC-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
68°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
68.5°	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1
69°	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
69.5°	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
70.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
71°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
71.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
72°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
73°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
73.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
74°	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
74.5°	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1
75.5°	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775767

CATALOG NUMBER: HCDJBL510CSD-HCD6TRC-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775767

CATALOG NUMBER: HCDJBL510CSD-HCD6TRC-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	966.6	966.6	966.6	966.6	966.6	966.6
0.5°	965.9	965.4	965.7	966.6	966.9	966.9
1°	965.3	964.7	964.7	965.9	966.3	966.4
1.5°	964.5	963.5	963.4	965.1	965.5	965.8
2°	963.2	962.1	961.8	963.9	964.7	965.3
2.5°	961.8	960.3	959.9	962.4	963.6	964.7
3°	959.8	958.3	957.7	960.7	962.5	963.9
3.5°	957.6	955.8	955.4	958.8	961.3	963.1
4°	955.0	953.0	952.7	956.9	960.0	962.5
4.5°	952.0	949.9	949.8	954.7	958.7	961.7
5°	948.7	946.4	946.4	952.5	957.2	961.0
5.5°	944.9	942.9	943.1	950.0	955.8	960.3
6°	941.3	939.1	939.6	947.4	954.1	959.3
6.5°	937.1	935.0	936.0	944.7	952.1	958.4
7°	933.1	930.9	932.1	941.9	950.4	957.1
7.5°	928.8	926.9	928.3	938.7	948.1	955.7
8°	924.3	922.4	924.4	935.7	946.0	954.1
8.5°	919.8	918.2	920.3	932.3	943.2	952.2
9°	915.5	913.7	916.1	928.9	940.4	949.9
9.5°	911.0	909.2	911.7	925.3	937.3	947.2
10°	906.4	904.8	907.7	921.8	934.0	944.2
10.5°	901.8	900.3	903.5	917.8	930.5	940.8
11°	897.4	895.9	899.3	914.1	926.6	937.0
11.5°	892.6	891.3	894.8	910.2	922.7	933.3
12°	888.0	886.5	890.4	905.9	918.7	929.0
12.5°	883.1	882.0	885.9	901.6	914.4	924.7
13°	878.2	877.1	881.4	897.1	910.4	920.1
13.5°	872.9	872.2	876.5	892.4	906.0	915.7
14°	867.7	867.1	871.6	887.7	901.7	910.7
14.5°	862.2	862.1	866.5	882.5	897.4	906.0
15°	856.7	856.7	861.3	877.4	893.0	900.9
15.5°	850.8	851.1	856.0	871.9	888.2	896.0
16°	844.8	845.3	850.3	866.7	883.5	890.9
16.5°	838.5	839.3	844.3	861.3	878.7	885.7
17°	832.0	832.9	838.0	855.6	873.7	880.2
17.5°	824.9	826.0	831.4	849.7	868.4	875.0
18°	818.0	819.0	824.6	843.8	862.7	869.3
18.5°	810.5	811.6	817.4	837.8	856.6	863.6
19°	802.8	804.1	810.1	831.4	850.2	857.5
19.5°	794.9	796.3	802.6	824.9	843.5	851.3
20°	786.8	788.3	794.9	818.1	836.5	845.1
20.5°	778.3	780.2	786.9	810.9	829.3	838.6
21°	769.6	772.0	778.9	803.7	821.7	832.1

TEST NUMBER: P775767

CATALOG NUMBER: HCDJBL510CSD-HCD6TRC-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	743.8	746.6	754.3	779.4	796.9	811.3
23°	734.7	738.2	746.1	770.9	787.9	804.2
23.5°	725.0	729.5	737.4	762.2	778.8	796.7
24°	715.3	720.7	728.8	752.9	769.8	789.0
24.5°	705.5	711.4	719.6	744.0	760.5	781.0
25°	695.7	702.3	710.7	734.4	750.9	773.1
25.5°	685.5	692.8	701.0	724.8	741.0	764.7
26°	675.0	683.0	691.7	714.8	731.2	755.7
26.5°	664.3	672.8	681.7	705.0	721.1	746.7
27°	653.5	662.4	671.3	694.5	711.0	737.4
27.5°	642.2	651.5	660.4	683.7	700.7	727.7
28°	630.8	640.3	649.2	672.4	689.6	717.2
28.5°	618.9	628.5	637.8	661.2	678.8	707.0
29°	607.0	616.7	625.9	649.5	667.5	696.0
29.5°	594.7	604.1	613.3	638.2	656.3	684.8
30°	582.3	591.5	600.9	625.9	644.3	673.4
30.5°	569.8	578.2	588.1	614.0	632.7	661.7
31°	557.1	565.0	574.8	601.4	620.7	649.6
31.5°	544.1	551.3	560.7	589.0	608.6	637.0
32°	531.2	537.3	546.9	576.9	595.9	624.7
32.5°	518.2	523.0	533.1	563.9	583.6	612.1
33°	504.6	509.1	519.0	551.3	570.6	599.2
33.5°	491.4	494.8	504.7	538.0	558.2	585.8
34°	477.5	480.7	490.8	524.8	545.4	572.6
34.5°	464.1	465.9	476.5	511.5	532.2	558.5
35°	450.6	451.8	462.5	497.6	518.4	544.1
35.5°	436.8	437.7	448.8	484.0	504.9	529.6
36°	423.2	423.9	434.7	470.1	490.8	515.2
36.5°	408.9	410.4	421.1	456.2	476.7	500.2
37°	394.7	396.4	407.3	441.6	462.0	485.0
37.5°	380.5	382.7	393.4	427.1	447.3	469.5
38°	366.2	367.7	379.4	412.6	432.5	454.0
38.5°	352.0	354.1	365.3	397.6	417.5	438.5
39°	337.5	340.6	351.1	383.3	402.2	422.9
39.5°	323.4	327.0	336.9	367.2	387.0	408.1
40°	309.5	313.5	322.7	353.1	370.8	393.3
40.5°	295.7	299.6	308.5	338.9	355.7	378.8
41°	282.1	285.8	294.3	324.8	340.6	364.4
41.5°	268.5	272.7	280.2	310.6	325.5	350.0
42°	255.0	259.6	266.8	296.1	310.4	335.7
42.5°	241.9	246.8	253.6	281.8	295.4	321.3
43°	228.7	233.9	240.2	267.4	281.1	306.9
43.5°	216.0	221.7	227.2	253.0	266.8	292.6



TEST NUMBER: P775767

CATALOG NUMBER: HCDJBL510CSD-HCD6TRC-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	179.9	184.7	188.6	210.7	226.0	250.9
45.5°	168.8	172.9	176.0	197.5	213.3	237.4
46°	157.7	161.1	163.9	184.8	201.0	224.7
46.5°	147.6	150.1	152.0	172.4	189.0	211.6
47°	137.5	139.1	140.7	160.7	177.2	198.7
47.5°	128.1	128.3	129.7	149.4	165.3	185.9
48°	118.8	117.9	119.0	138.3	154.2	174.0
48.5°	109.9	108.5	109.0	128.0	143.2	162.0
49°	101.6	99.1	99.5	118.0	132.8	150.8
49.5°	94.1	90.6	90.8	109.0	122.4	139.6
50°	86.7	82.0	82.2	100.1	112.8	129.1
50.5°	79.3	74.5	74.5	91.4	103.0	118.5
51°	71.8	67.3	67.4	83.2	94.1	108.7
51.5°	65.2	61.0	60.9	76.1	85.5	99.1
52°	58.9	55.1	55.2	68.9	77.6	89.6
52.5°	53.0	49.9	49.9	62.2	70.0	80.5
53°	47.3	44.7	44.8	55.8	62.8	72.1
53.5°	41.9	40.1	40.1	50.0	56.0	64.0
54°	36.8	35.8	35.5	44.4	49.7	56.4
54.5°	32.1	31.7	31.5	39.1	43.5	49.5
55°	27.5	27.6	27.4	34.5	38.0	43.3
55.5°	23.2	23.5	23.3	30.1	33.4	37.5
56°	19.2	19.5	19.2	25.6	28.8	32.9
56.5°	15.8	15.9	15.5	21.1	24.1	28.3
57°	12.4	11.9	11.6	16.7	19.6	23.6
57.5°	9.0	8.1	7.7	12.7	15.0	19.1
58°	5.7	4.8	4.4	8.5	10.8	14.4
58.5°	2.3	3.8	3.4	5.1	6.9	10.3
59°	1.2	3.0	2.5	2.6	3.9	6.3
59.5°	0.9	2.3	1.7	2.1	3.1	3.4
60°	0.8	1.5	0.7	1.6	2.3	2.7
60.5°	0.7	0.6	0.6	1.1	1.5	2.1
61°	0.6	0.5	0.5	0.6	0.7	1.3
61.5°	0.5	0.5	0.4	0.5	0.6	0.7
62°	0.4	0.4	0.4	0.5	0.5	0.6
62.5°	0.4	0.4	0.3	0.4	0.4	0.5
63°	0.4	0.3	0.3	0.4	0.4	0.5
63.5°	0.3	0.3	0.3	0.3	0.3	0.4
64°	0.3	0.3	0.3	0.3	0.3	0.3
64.5°	0.3	0.2	0.2	0.3	0.3	0.3
65°	0.2	0.2	0.2	0.2	0.2	0.3
65.5°	0.2	0.2	0.2	0.2	0.2	0.2
66°	0.2	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P775767

CATALOG NUMBER: HCDJBL510CSD-HCD6TRC-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.2	0.1	0.1	0.1	0.1	0.2
68°	0.1	0.1	0.1	0.1	0.1	0.2
68.5°	0.1	0.1	0.1	0.1	0.1	0.1
69°	0.1	0.1	0.1	0.1	0.1	0.1
69.5°	0.1	0.1	0.1	0.1	0.1	0.1
70°	0.1	0.1	0.1	0.1	0.1	0.1
70.5°	0.1	0.1	0.1	0.1	0.1	0.1
71°	0.1	0.1	0.1	0.1	0.1	0.1
71.5°	0.1	0.1	0.1	0.1	0.1	0.1
72°	0.1	0.1	0.1	0.1	0.1	0.1
72.5°	0.1	0.1	0.1	0.1	0.1	0.1
73°	0.1	0.1	0.0	0.1	0.1	0.1
73.5°	0.1	0.0	0.0	0.0	0.0	0.1
74°	0.1	0.0	0.0	0.0	0.0	0.0
74.5°	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0
75.5°	0.0	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775767

CATALOG NUMBER: HCDJBL510CSD-HCD6TRC-1000lm-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180° - - 45°-225° - - - - 90°-270° - · - 135°-315°

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21.5°	825.3	842.3	858.7	862.5	846.1	838.0	818.0	796.2	780.2	771.1	763.4
22°	818.3	836.0	853.1	856.3	839.9	831.3	810.3	788.8	772.0	763.1	754.1



44°	278.2	299.0	316.4	325.3	312.0	300.1	269.1	254.2	235.2	221.6	208.1
44.5°	264.3	284.8	301.7	309.5	298.4	285.9	255.6	240.4	222.7	209.1	196.4



66.5°	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
67°	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2



89°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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21.5°	761.0	763.6	770.9	796.0	813.7	825.3
22°	752.4	755.1	762.7	787.6	805.5	818.3



44°	203.3	208.9	214.0	238.6	252.9	278.2
44.5°	191.5	196.8	201.4	224.3	239.3	264.3

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66.5°	0.2	0.2	0.2	0.2	0.2	0.2
67°	0.2	0.2	0.1	0.2	0.2	0.2

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89°	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0

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(END OF REPORT)