

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



Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P583981

Luminaire Tested: **HCC8S20D010MB-HM80520827-81WWBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583981
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S20D010MB-HM80520827-81WWBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

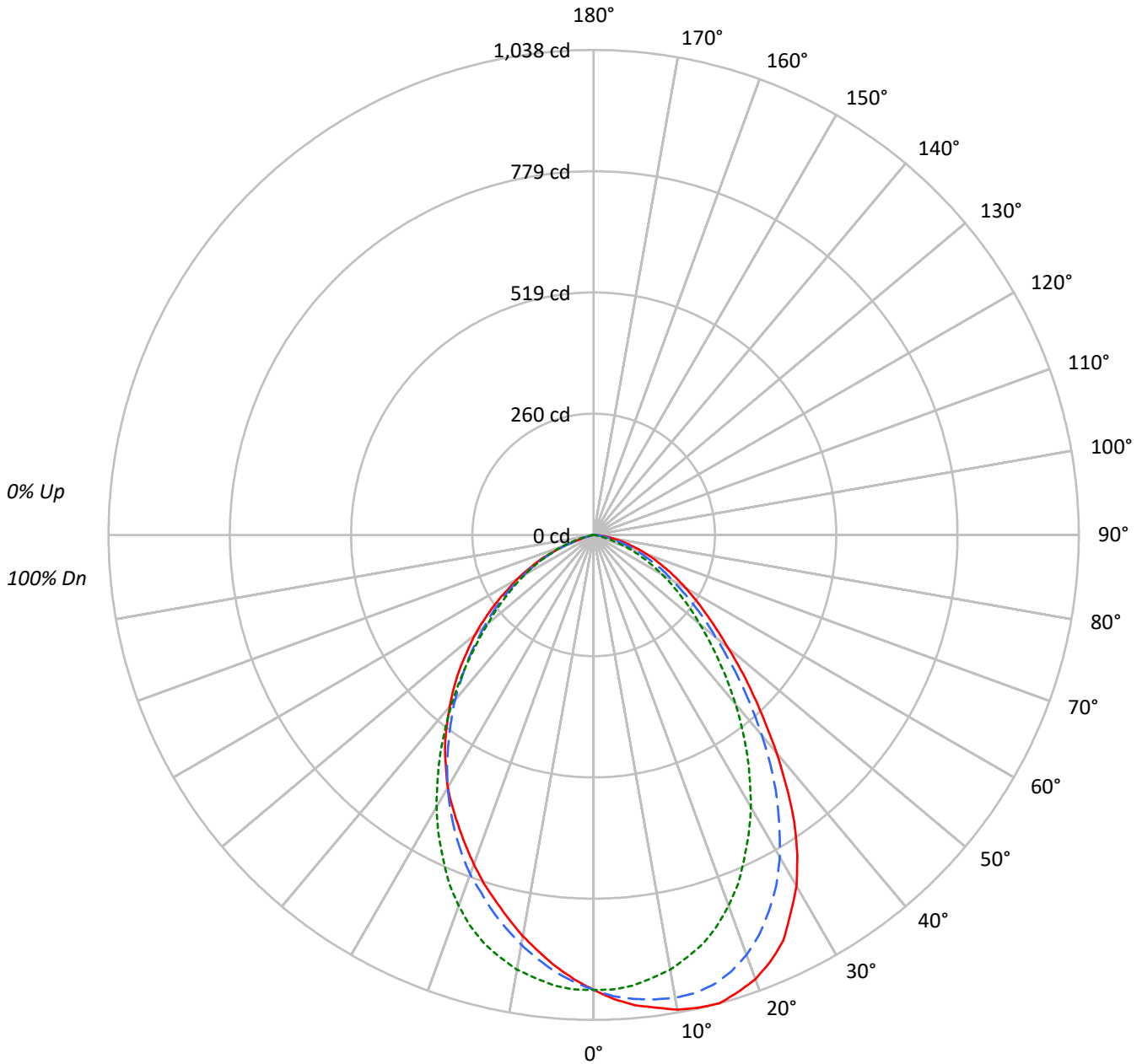
Lumens per Lamp: N/A
Luminaire Lumens: 1813.9 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 20
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: 25 FT



TEST NUMBER: P583981
CATALOG NUMBER: HCC8S20D010MB-HM80520827-81WWBB

Luminous Intensity Polar Plot



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



TEST NUMBER: P583981

CATALOG NUMBER: HCC8S20D010MB-HM80520827-81WWBB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77								
3	95	86	79	74	93	85	78	73	82	76	72	79	74	71	77	73	69	67								
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59								
5	82	70	63	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53								
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	58	53	49	47								
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43								
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39								
9	62	50	43	37	61	50	42	37	48	42	37	47	41	37	46	41	37	35								
10	59	47	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	30028	30028	30028
5°	31273	29967	28704
10°	32314	29580	27304
15°	33134	28904	25881
20°	33199	27706	24598
25°	32639	25950	23327
30°	30892	23949	22236
35°	28165	21536	20877
40°	24495	18984	19278
45°	21011	16445	17649
50°	17947	14176	15855
55°	15725	12209	13768
60°	14006	10417	11582
65°	12426	8493	9237
70°	11017	6302	5256
75°	9198	3300	1561
80°	7245	1030	249
85°	5130	495	0



TEST NUMBER: P583981
 CATALOG NUMBER: HCC8S20D010MB-HM80520827-81WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	5.1
10°-20°	257.2	14.2
20°-30°	364.0	20.1
30°-40°	380.8	21.0
40°-50°	317.6	17.5
50°-60°	225.3	12.4
60°-70°	129.7	7.2
70°-80°	41.7	2.3
80°-90°	5.7	0.3
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°	713.0	39.3
0°-40°	1093.8	60.3
0°-60°	1636.7	90.2
0°-90°	1813.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1813.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	974	974	974	974	974	
5°	1010	997	968	939	927	97
15°	1038	996	905	834	811	292
25°	959	888	763	702	686	438
35°	748	683	572	542	555	464
45°	482	442	377	381	405	373
55°	292	262	227	239	256	264
65°	170	143	116	116	127	170
75°	77	57	28	13	13	84
85°	14	7	1	0	0	18
90°	0	0	0	0	0	

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



TEST NUMBER: P583981

CATALOG NUMBER: HCC8S20D010MB-HM80520827-81WWBB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8
2.5°	994.2	992.8	991.3	992.8	991.3	992.8	991.3	991.3	989.8	988.4	988.4
5°	1010.3	1008.7	1008.7	1008.7	1007.3	1005.9	1005.9	1004.3	1001.5	1000.0	997.1
7.5°	1020.4	1021.8	1021.8	1021.8	1019.0	1019.0	1016.0	1013.1	1010.3	1007.3	1002.9
10°	1032.0	1032.0	1030.6	1029.2	1026.2	1024.8	1023.3	1020.4	1016.0	1010.3	1005.9
12.5°	1036.4	1036.4	1035.0	1032.0	1030.6	1029.2	1027.6	1023.3	1017.5	1010.3	1004.3
15°	1037.9	1035.0	1033.5	1032.0	1029.2	1024.8	1024.8	1019.0	1011.7	1002.9	995.6
17.5°	1026.2	1027.6	1024.8	1021.8	1017.5	1014.6	1010.3	1005.9	997.1	987.0	979.6
20°	1011.7	1010.3	1008.7	1004.3	998.6	997.1	992.8	985.4	978.2	966.5	956.4
22.5°	988.4	987.0	984.0	981.1	975.3	972.3	968.1	959.3	949.0	937.4	925.7
25°	959.3	956.4	952.0	946.2	941.8	938.9	933.1	924.3	912.7	899.6	887.9
27.5°	912.7	917.0	914.2	905.4	901.0	895.2	893.7	882.1	872.0	858.8	845.7
30°	867.6	867.6	863.2	858.8	851.5	847.1	841.3	832.6	822.4	806.5	796.2
32.5°	810.7	809.3	803.5	802.1	796.2	787.4	786.0	774.4	764.2	752.6	739.5
35°	748.2	745.3	739.5	735.1	732.1	727.9	723.5	713.2	703.1	691.5	682.7
37.5°	676.8	676.8	675.4	668.2	665.2	662.3	657.9	647.7	641.9	630.2	621.6
40°	608.5	607.0	602.6	601.2	598.2	594.0	591.0	585.2	576.5	567.7	559.0
42.5°	541.5	543.0	537.1	538.6	532.7	529.9	528.4	519.6	515.4	506.6	499.3
45°	481.8	480.4	477.4	476.0	473.0	470.2	467.2	462.9	455.7	446.9	442.5
47.5°	426.5	422.1	422.1	420.7	419.3	413.3	411.9	407.6	403.2	394.4	388.6
50°	374.1	374.1	374.1	372.7	368.3	366.8	363.9	359.6	355.2	349.4	340.7
52.5°	331.9	331.9	331.9	330.5	324.6	323.2	321.7	315.8	310.0	305.7	299.9
55°	292.5	294.1	292.5	289.7	285.3	285.3	281.0	278.0	272.2	267.8	262.0
57.5°	259.1	259.1	256.1	254.7	251.9	250.3	247.5	244.6	237.2	232.9	225.6
60°	227.1	225.6	225.6	222.7	219.9	216.9	215.5	211.1	208.2	200.8	195.0
62.5°	198.0	198.0	195.0	195.0	189.2	189.2	187.8	183.4	179.1	171.7	168.9
65°	170.3	170.3	168.9	167.4	163.0	161.6	160.2	155.8	151.4	147.0	142.7
67.5°	145.6	145.6	142.7	141.2	138.3	136.9	133.9	131.0	126.6	122.2	118.0
70°	122.2	120.8	119.4	118.0	115.0	113.6	110.6	107.7	103.3	100.5	96.1
72.5°	98.9	98.9	97.5	94.6	93.1	91.7	90.3	87.3	83.0	78.6	75.6
75°	77.2	77.2	77.2	74.2	71.3	69.9	69.9	66.9	64.1	59.7	56.7
77.5°	59.7	58.3	56.7	56.7	53.9	52.4	50.9	49.5	45.2	43.6	40.8
80°	40.8	42.2	40.8	39.4	37.8	36.4	36.4	33.5	32.0	29.1	26.2
82.5°	27.7	26.2	26.2	24.7	24.7	23.3	23.3	20.3	18.9	17.5	16.0
85°	14.5	14.5	13.1	13.1	13.1	11.7	11.7	10.2	10.2	8.7	7.3
87.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	3.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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



TEST NUMBER: P583981

CATALOG NUMBER: HCC8S20D010MB-HM80520827-81WWBB

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8
2.5°	987.0	984.0	982.6	982.6	981.1	979.6	978.2	976.7	973.8	973.8	970.9
5°	994.2	991.3	989.8	985.4	982.6	982.6	976.7	975.3	970.9	968.1	965.1
7.5°	1000.0	994.2	989.8	985.4	982.6	979.6	973.8	968.1	962.1	956.4	953.4
10°	1000.0	994.2	987.0	979.6	976.7	973.8	966.5	957.8	950.6	944.7	937.4
12.5°	997.1	988.4	979.6	973.8	968.1	963.7	954.9	946.2	937.4	925.7	920.0
15°	988.4	976.7	968.1	957.8	953.4	946.2	938.9	925.7	915.6	905.4	898.1
17.5°	970.9	956.4	946.2	936.0	928.7	924.3	912.7	901.0	889.3	877.8	869.0
20°	944.7	931.7	920.0	906.8	901.0	895.2	880.7	869.0	857.4	844.3	835.6
22.5°	912.7	899.6	883.5	873.4	864.6	857.4	844.3	831.2	819.5	807.9	796.2
25°	873.4	860.3	845.7	829.8	823.9	816.6	802.1	789.0	775.9	762.7	752.6
27.5°	831.2	813.7	802.1	784.6	778.8	771.5	755.5	740.9	729.3	719.1	707.4
30°	780.2	767.1	751.2	735.1	729.3	722.0	708.8	695.8	684.1	672.6	660.9
32.5°	724.9	711.8	695.8	684.1	675.4	669.6	656.5	644.9	633.2	621.6	611.3
35°	666.6	652.1	640.5	628.8	621.6	614.3	601.2	591.0	582.3	572.1	561.9
37.5°	607.0	596.8	585.2	572.1	564.8	559.0	548.8	537.1	529.9	521.1	513.8
40°	548.8	537.1	526.9	515.4	509.4	505.1	494.9	486.2	478.9	471.6	467.2
42.5°	489.1	478.9	468.7	461.5	457.1	452.7	445.4	435.2	430.8	423.6	419.3
45°	433.8	425.0	417.7	407.6	404.7	401.8	393.0	385.7	381.4	377.1	374.1
47.5°	381.4	375.5	366.8	361.0	356.6	353.8	347.9	342.1	337.7	334.7	331.9
50°	336.3	329.0	323.2	317.4	314.4	310.0	304.2	301.3	298.5	295.5	295.5
52.5°	294.1	286.8	281.0	276.6	273.6	270.8	266.4	264.9	262.0	262.0	260.5
55°	254.7	250.3	244.6	238.8	237.2	235.8	232.9	230.0	228.5	227.1	228.5
57.5°	221.3	216.9	211.1	206.7	205.2	203.8	202.4	199.4	198.0	198.0	198.0
60°	190.7	186.3	181.9	177.5	177.5	174.7	173.2	171.7	170.3	168.9	168.9
62.5°	163.0	158.6	154.3	151.4	149.9	148.5	145.6	144.1	142.7	142.7	141.2
65°	138.3	132.5	131.0	126.6	125.2	123.8	122.2	119.4	118.0	116.4	115.0
67.5°	113.6	110.6	106.3	103.3	101.9	100.5	98.9	96.1	94.6	93.1	90.3
70°	91.7	88.8	85.9	83.0	81.6	80.0	77.2	74.2	72.8	69.9	65.5
72.5°	71.3	68.4	65.5	62.6	61.1	59.7	56.7	53.9	50.9	48.0	45.2
75°	53.9	50.9	46.6	43.6	42.2	42.2	37.8	35.0	32.0	27.7	24.7
77.5°	37.8	33.5	32.0	29.1	27.7	24.7	21.9	18.9	16.0	14.5	11.7
80°	24.7	21.9	18.9	17.5	16.0	14.5	13.1	10.2	7.3	5.8	4.4
82.5°	14.5	13.1	11.7	10.2	8.7	7.3	5.8	5.8	4.4	3.0	1.4
85°	7.3	5.8	4.4	4.4	3.0	3.0	3.0	1.4	1.4	1.4	1.4
87.5°	3.0	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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



TEST NUMBER: P583981

CATALOG NUMBER: HCC8S20D010MB-HM80520827-81WWBB

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8
2.5°	969.5	968.1	966.5	965.1	965.1	962.1	962.1	960.7	957.8	956.4	956.4
5°	960.7	956.4	953.4	952.0	950.6	946.2	944.7	941.8	938.9	936.0	934.5
7.5°	947.6	940.4	937.4	936.0	931.7	927.3	924.3	920.0	915.6	911.2	909.8
10°	931.7	924.3	917.0	914.2	909.8	906.8	901.0	895.2	890.9	886.5	882.1
12.5°	911.2	902.5	895.2	892.3	887.9	882.1	873.4	870.4	863.2	860.3	854.5
15°	887.9	877.8	870.4	866.1	861.8	853.0	847.1	841.3	834.1	831.2	825.4
17.5°	858.8	847.1	839.9	835.6	832.6	825.4	816.6	809.3	802.1	799.2	794.8
20°	823.9	816.6	806.5	802.1	799.2	790.4	781.7	778.8	772.9	767.1	762.7
22.5°	784.6	777.3	767.1	762.7	761.3	754.0	746.8	742.4	738.0	733.7	729.3
25°	743.8	735.1	726.3	723.5	720.5	714.8	708.8	706.0	701.6	698.7	695.8
27.5°	700.2	691.5	684.1	679.8	676.8	672.6	669.6	666.6	663.8	660.9	659.4
30°	653.5	644.9	639.0	636.2	633.2	631.8	627.4	625.9	624.5	621.6	623.0
32.5°	607.0	599.7	594.0	589.6	589.6	586.6	585.2	585.2	583.7	583.7	583.7
35°	556.0	551.6	547.3	545.8	544.4	543.0	541.5	543.0	541.5	543.0	544.4
37.5°	509.4	505.1	502.2	500.7	499.3	500.7	499.3	499.3	500.7	503.7	505.1
40°	461.5	458.5	455.7	457.1	455.7	455.7	455.7	460.0	461.5	462.9	464.3
42.5°	416.3	413.3	411.9	411.9	413.3	411.9	414.9	416.3	419.3	423.6	426.5
45°	372.7	371.1	371.1	372.7	371.1	374.1	374.1	377.1	381.4	384.3	387.2
47.5°	331.9	331.9	331.9	333.3	333.3	334.7	337.7	339.1	342.1	345.0	347.9
50°	294.1	295.5	296.9	296.9	296.9	299.9	302.8	304.2	305.7	307.1	311.5
52.5°	260.5	262.0	262.0	263.5	264.9	266.4	267.8	270.8	272.2	275.2	276.6
55°	228.5	228.5	231.4	232.9	232.9	232.9	235.8	235.8	238.8	240.2	243.1
57.5°	198.0	199.4	199.4	200.8	200.8	202.4	203.8	205.2	206.7	208.2	209.6
60°	168.9	168.9	168.9	170.3	171.7	173.2	171.7	174.7	174.7	177.5	179.1
62.5°	141.2	142.7	142.7	142.7	142.7	142.7	142.7	144.1	145.6	147.0	148.5
65°	115.0	115.0	115.0	113.6	115.0	113.6	115.0	116.4	116.4	118.0	119.4
67.5°	88.8	88.8	85.9	85.9	87.3	87.3	87.3	87.3	85.9	88.8	88.8
70°	64.1	62.6	61.1	59.7	59.7	58.3	58.3	56.7	56.7	56.7	56.7
72.5°	42.2	39.4	36.4	35.0	33.5	33.5	30.6	29.1	30.6	30.6	30.6
75°	21.9	18.9	17.5	16.0	14.5	14.5	13.1	13.1	13.1	13.1	13.1
77.5°	8.7	7.3	5.8	5.8	4.4	4.4	4.4	4.4	4.4	4.4	4.4
80°	3.0	3.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
85°	1.4	0.0	0.0	1.4	0.0	1.4	1.4	1.4	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
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: P583981

CATALOG NUMBER: HCC8S20D010MB-HM80520827-81WWBB

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8
2.5°	954.9	954.9	953.4	954.9	952.0	953.4	952.0	952.0
5°	933.1	930.1	930.1	930.1	928.7	928.7	927.3	927.3
7.5°	906.8	905.4	904.0	902.5	901.0	899.6	899.6	899.6
10°	880.7	877.8	877.8	876.3	873.4	872.0	872.0	872.0
12.5°	850.1	848.7	847.1	847.1	841.3	842.8	841.3	841.3
15°	821.0	819.5	819.5	815.1	812.3	812.3	812.3	810.7
17.5°	790.4	789.0	787.4	784.6	781.7	781.7	780.2	781.7
20°	758.4	757.0	754.0	754.0	752.6	751.2	748.2	749.6
22.5°	726.3	723.5	722.0	722.0	720.5	720.5	717.6	717.6
25°	692.9	691.5	689.9	691.5	688.5	688.5	685.6	685.6
27.5°	657.9	656.5	656.5	656.5	655.1	656.5	655.1	655.1
30°	623.0	623.0	621.6	621.6	623.0	621.6	623.0	624.5
32.5°	585.2	585.2	586.6	586.6	588.0	588.0	588.0	588.0
35°	545.8	548.8	548.8	550.2	551.6	553.2	553.2	554.6
37.5°	509.4	511.0	512.4	513.8	516.8	516.8	516.8	516.8
40°	470.2	471.6	474.6	473.0	478.9	480.4	478.9	478.9
42.5°	429.4	432.4	433.8	436.7	438.2	441.0	442.5	442.5
45°	391.6	393.0	396.0	398.8	400.3	404.7	404.7	404.7
47.5°	352.2	355.2	356.6	359.6	361.0	365.4	366.8	365.4
50°	314.4	317.4	320.2	320.2	324.6	326.1	329.0	330.5
52.5°	278.0	279.4	282.4	283.8	286.8	289.7	291.1	292.5
55°	243.1	244.6	247.5	247.5	251.9	253.3	256.1	256.1
57.5°	211.1	212.5	215.5	213.9	216.9	219.9	219.9	218.3
60°	180.5	180.5	180.5	183.4	184.9	186.3	187.8	187.8
62.5°	148.5	151.4	152.8	152.8	154.3	155.8	155.8	154.3
65°	119.4	122.2	123.8	123.8	125.2	125.2	125.2	126.6
67.5°	90.3	90.3	90.3	91.7	90.3	90.3	90.3	90.3
70°	56.7	56.7	56.7	56.7	55.3	56.7	56.7	58.3
72.5°	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6
75°	13.1	13.1	13.1	14.5	13.1	13.1	13.1	13.1
77.5°	5.8	4.4	5.8	5.8	4.4	4.4	4.4	4.4
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
85°	0.0	1.4	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
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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

Scaled Data Report



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

Scaled Data Report



— 0°-180° - - 45°-225° - - - - 90°-270°

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)