

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: P583872

Luminaire Tested: **HCC8S15D010MB-HM80520835-81RWWC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S15D010MB-HM80520835-81RWWC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

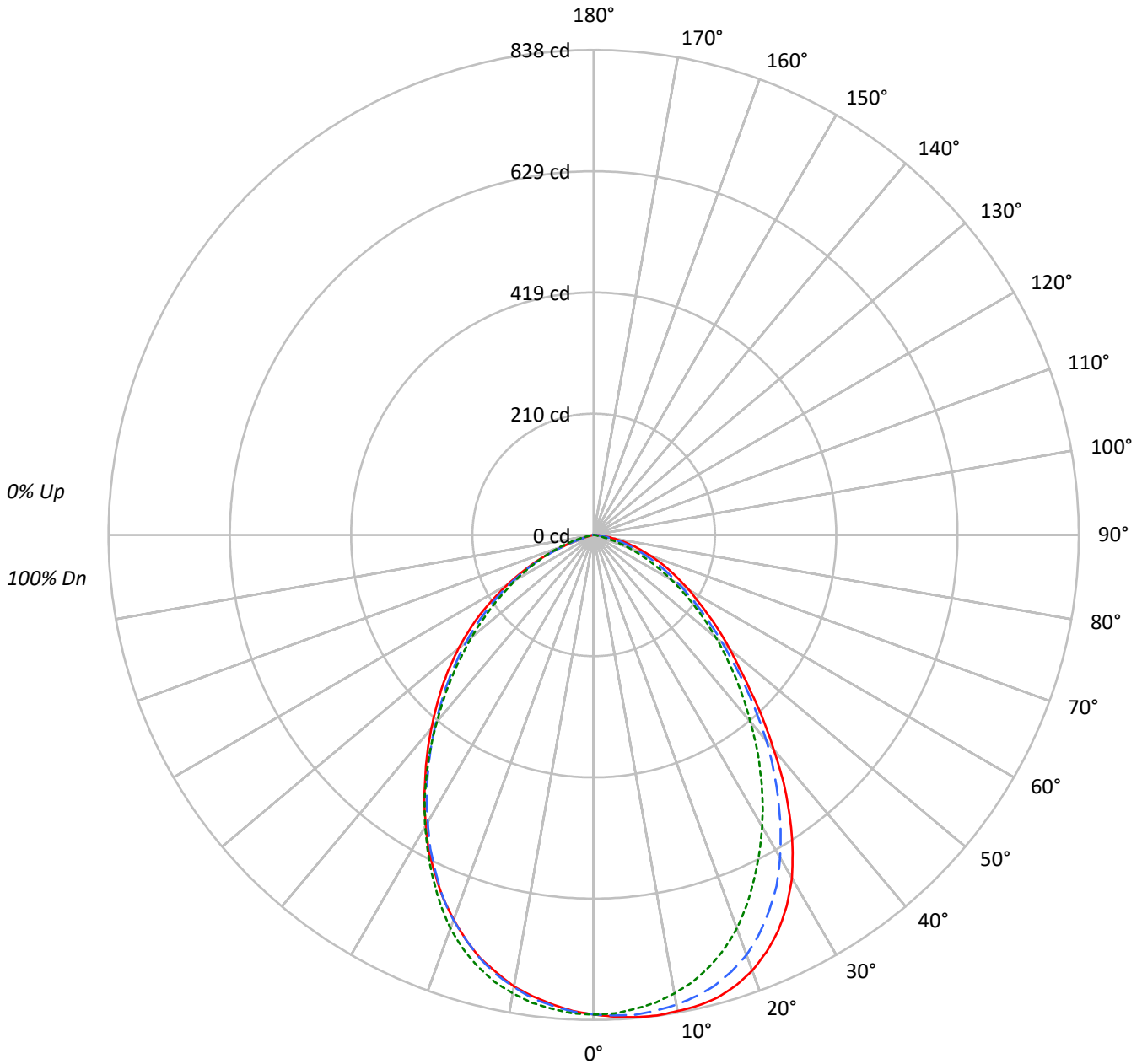
Lumens per Lamp: N/A
Luminaire Lumens: 1575.1 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.08 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 14
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: P583872
CATALOG NUMBER: HCC8S15D010MB-HM80520835-81RWWC

Luminous Intensity Polar Plot



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



TEST NUMBER: P583872

CATALOG NUMBER: HCC8S15D010MB-HM80520835-81RWWC

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	85	100	94	89	84	91	86	82	87	84	81	84	82	79	77								
3	95	86	79	73	93	84	78	73	82	76	72	79	74	70	76	73	69	67								
4	88	77	70	64	86	76	69	64	74	68	63	72	66	62	69	65	61	59								
5	81	70	62	56	80	69	62	56	67	61	56	65	59	55	63	58	54	52								
6	76	64	56	50	74	63	55	50	61	55	50	60	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35								
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	25557	25557	25557
5°	25893	25447	25206
10°	26158	25184	24805
15°	26420	24655	24163
20°	26288	23745	23200
25°	25675	22323	22024
30°	24387	20723	20645
35°	22199	18912	19074
40°	19467	16923	17551
45°	16790	15054	16118
50°	14699	13217	14598
55°	13026	11365	12849
60°	11736	9559	10645
65°	10580	7669	8150
70°	9277	5581	4490
75°	7911	2895	1191
80°	6091	799	195
85°	3927	0	0



TEST NUMBER: P583872
 CATALOG NUMBER: HCC8S15D010MB-HM80520835-81RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.2	5.0
10°-20°	219.8	14.0
20°-30°	312.0	19.8
30°-40°	328.4	20.9
40°-50°	279.4	17.7
50°-60°	201.9	12.8
60°-70°	114.8	7.3
70°-80°	36.2	2.3
80°-90°	4.4	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°	610.0	38.7
0°-40°	938.4	59.6
0°-60°	1419.7	90.1
0°-90°	1575.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1575.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	829	829	829	829	829	
5°	836	832	822	817	814	80
15°	828	807	772	758	757	233
25°	755	717	656	645	647	346
35°	590	555	502	499	507	367
45°	385	371	345	354	370	299
55°	242	225	211	224	239	218
65°	145	125	105	104	112	144
75°	66	51	24	11	10	71
85°	11	7	0	0	0	14
90°	0	0	0	0	0	

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



TEST NUMBER: P583872

CATALOG NUMBER: HCC8S15D010MB-HM80520835-81RWWC

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8
2.5°	833.1	834.2	832.1	832.1	834.2	832.1	833.1	833.1	832.1	832.1	831.0
5°	836.5	835.4	835.4	835.4	836.5	834.2	833.1	834.2	832.1	832.1	832.1
7.5°	837.6	837.6	836.5	835.4	835.4	835.4	834.2	833.1	832.1	829.9	828.8
10°	835.4	835.4	836.5	834.2	834.2	832.1	832.1	829.9	829.9	827.6	824.3
12.5°	833.1	832.1	832.1	829.9	829.9	827.6	827.6	824.3	823.3	819.9	816.6
15°	827.6	826.5	824.3	823.3	822.1	821.0	818.8	817.7	814.3	809.9	806.6
17.5°	816.6	815.4	814.3	812.2	809.9	808.8	807.7	804.3	800.0	796.6	791.1
20°	801.1	800.0	800.0	796.6	795.5	792.2	791.1	786.7	783.4	776.7	772.3
22.5°	780.0	781.2	778.9	776.7	774.6	771.2	769.0	764.6	759.0	752.4	746.9
25°	754.6	755.7	753.5	751.3	747.9	745.8	743.5	736.9	731.3	723.6	717.0
27.5°	722.5	722.5	722.5	720.3	714.8	713.7	711.4	704.8	697.1	690.5	683.8
30°	684.9	683.8	683.8	680.5	678.3	673.8	670.5	665.0	659.5	651.7	644.0
32.5°	639.5	640.7	637.3	635.2	631.8	631.8	627.3	623.0	616.4	608.5	600.8
35°	589.7	590.8	588.6	587.6	582.0	580.9	579.8	574.3	569.8	564.3	555.4
37.5°	538.9	537.8	536.6	536.6	533.3	531.0	528.9	525.6	518.9	514.5	510.1
40°	483.6	483.6	483.6	482.4	481.3	479.1	478.0	475.7	471.4	466.9	463.6
42.5°	433.7	433.7	432.6	431.5	429.3	430.4	428.3	426.0	421.5	418.3	416.1
45°	385.0	385.0	385.0	386.2	383.9	380.7	380.7	378.4	376.2	374.0	370.7
47.5°	341.9	345.2	342.9	341.9	342.9	338.6	338.6	336.3	334.1	332.0	327.5
50°	306.4	306.4	306.4	304.3	303.2	303.2	299.8	297.6	296.6	294.3	289.9
52.5°	274.4	272.2	272.2	271.1	269.9	267.8	267.8	265.6	261.1	259.0	255.6
55°	242.3	242.3	241.2	240.2	239.0	237.9	236.8	233.4	231.2	228.0	224.6
57.5°	213.5	215.8	214.6	212.4	210.3	210.3	208.0	205.8	202.4	199.2	195.8
60°	190.3	189.2	189.2	188.1	185.9	184.7	183.6	180.4	177.0	173.8	170.4
62.5°	165.9	165.9	165.9	163.8	161.6	160.4	159.3	157.1	152.7	149.4	147.1
65°	145.0	143.9	142.8	141.6	140.5	138.3	137.2	135.0	131.7	128.3	125.1
67.5°	123.9	122.8	122.8	121.7	118.5	117.2	117.2	114.0	110.6	107.4	104.0
70°	102.9	102.9	102.9	100.7	99.5	98.4	97.4	95.2	91.8	88.6	85.2
72.5°	85.2	84.1	84.1	83.0	79.7	78.6	77.5	75.2	71.9	69.6	67.5
75°	66.4	66.4	65.3	64.2	63.0	61.9	60.9	58.7	55.3	52.1	50.9
77.5°	50.9	49.8	49.8	48.7	46.5	45.3	45.3	43.1	39.9	37.6	35.4
80°	34.3	35.4	34.3	33.1	32.1	31.0	29.9	28.8	26.5	24.3	22.2
82.5°	21.0	22.2	21.0	21.0	19.9	18.8	18.8	16.6	15.5	14.3	13.3
85°	11.1	11.1	11.1	11.1	10.0	10.0	10.0	8.8	7.7	6.6	6.6
87.5°	3.4	4.5	3.4	3.4	3.4	3.4	3.4	3.4	2.2	2.2	2.2
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: P583872

CATALOG NUMBER: HCC8S15D010MB-HM80520835-81RWWC

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8
2.5°	832.1	831.0	829.9	829.9	829.9	829.9	829.9	828.8	827.6	827.6	827.6
5°	829.9	829.9	829.9	828.8	827.6	827.6	825.4	824.3	823.3	822.1	821.0
7.5°	827.6	825.4	824.3	823.3	822.1	822.1	819.9	817.7	817.7	815.4	813.3
10°	821.0	819.9	817.7	815.4	814.3	813.3	811.1	807.7	806.6	804.3	802.2
12.5°	813.3	811.1	808.8	804.3	803.3	802.2	797.7	794.5	792.2	791.1	785.5
15°	803.3	798.9	795.5	790.0	788.9	786.7	783.4	780.0	775.7	772.3	770.1
17.5°	785.5	781.2	775.7	770.1	767.8	767.8	762.4	757.9	752.4	750.2	745.8
20°	764.6	759.0	754.6	747.9	744.7	741.3	738.1	731.3	727.0	723.6	718.1
22.5°	740.2	732.5	727.0	720.3	714.8	711.4	705.9	700.3	694.8	691.5	687.1
25°	709.3	702.6	693.7	687.1	683.8	679.4	672.8	667.2	661.7	656.1	654.0
27.5°	674.9	666.1	658.3	650.6	647.3	644.0	636.2	629.6	625.2	619.6	617.4
30°	637.3	628.5	619.6	613.0	609.6	604.2	599.7	592.0	586.5	582.0	576.5
32.5°	594.2	587.6	579.8	569.8	567.6	563.2	556.6	553.2	546.6	543.2	538.9
35°	547.7	543.2	535.5	527.8	524.4	522.2	516.7	510.1	505.6	502.4	500.1
37.5°	503.4	497.9	490.2	484.7	482.4	479.1	472.5	469.1	464.8	462.5	458.0
40°	455.9	450.3	444.8	441.5	438.1	436.0	431.5	428.3	423.8	420.4	419.3
42.5°	409.3	406.1	401.6	397.2	396.1	392.8	390.5	387.3	383.9	382.8	379.6
45°	367.4	364.0	359.6	355.2	354.0	351.9	350.8	347.4	345.2	345.2	345.2
47.5°	325.4	322.0	317.5	315.3	316.4	312.0	312.0	310.9	308.7	308.7	309.8
50°	287.6	283.3	282.1	279.9	277.8	275.5	276.7	273.3	273.3	275.5	274.4
52.5°	252.3	247.9	246.8	244.5	243.4	243.4	242.3	242.3	241.2	242.3	242.3
55°	220.2	216.9	214.6	212.4	211.4	211.4	211.4	210.3	209.1	211.4	212.4
57.5°	191.5	190.3	188.1	184.7	183.6	182.6	181.5	181.5	181.5	181.5	182.6
60°	165.9	163.8	161.6	158.2	158.2	157.1	156.0	155.0	155.0	155.0	155.0
62.5°	143.9	140.5	137.2	135.0	133.9	132.8	131.7	129.4	129.4	129.4	129.4
65°	121.7	118.5	116.2	114.0	111.7	111.7	109.5	108.4	106.2	105.1	102.9
67.5°	100.7	98.4	96.3	92.9	91.8	90.7	88.6	87.4	84.1	83.0	81.8
70°	81.8	78.6	76.4	74.1	73.0	70.9	68.6	66.4	64.2	61.9	59.8
72.5°	64.2	60.9	58.7	56.4	54.2	54.2	50.9	48.7	45.3	43.1	39.9
75°	47.6	44.2	42.1	38.7	37.6	36.5	33.1	31.0	27.7	24.3	22.2
77.5°	32.1	29.9	27.7	24.3	22.2	22.2	18.8	16.6	14.3	11.1	10.0
80°	19.9	17.7	15.5	13.3	13.3	11.1	10.0	7.7	5.5	4.5	3.4
82.5°	11.1	10.0	8.8	6.6	6.6	5.5	4.5	3.4	2.2	1.1	1.1
85°	5.5	4.5	3.4	3.4	2.2	2.2	2.2	1.1	1.1	0.0	0.0
87.5°	2.2	1.1	1.1	1.1	1.1	1.1	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

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



TEST NUMBER: P583872

CATALOG NUMBER: HCC8S15D010MB-HM80520835-81RWWC

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8
2.5°	826.5	826.5	825.4	825.4	825.4	824.3	825.4	824.3	824.3	824.3	825.4
5°	822.1	819.9	819.9	818.8	818.8	817.7	818.8	817.7	816.6	815.4	816.6
7.5°	813.3	811.1	809.9	808.8	808.8	808.8	807.7	806.6	807.7	804.3	806.6
10°	801.1	800.0	797.7	796.6	795.5	796.6	795.5	793.4	793.4	793.4	792.2
12.5°	785.5	783.4	782.3	781.2	778.9	778.9	780.0	777.8	777.8	775.7	775.7
15°	766.7	764.6	762.4	762.4	760.1	760.1	759.0	759.0	757.9	756.9	756.9
17.5°	743.5	740.2	738.1	739.1	738.1	736.9	736.9	734.7	733.6	734.7	734.7
20°	715.9	713.7	711.4	712.5	710.3	709.3	710.3	707.0	708.2	708.2	708.2
22.5°	684.9	683.8	680.5	680.5	678.3	677.2	678.3	678.3	679.4	678.3	678.3
25°	650.6	648.4	646.1	646.1	645.0	644.0	645.0	646.1	645.0	646.1	646.1
27.5°	614.1	610.8	610.8	608.5	608.5	609.6	608.5	609.6	610.8	610.8	613.0
30°	574.3	573.1	572.0	570.9	570.9	572.0	572.0	572.0	573.1	575.4	575.4
32.5°	536.6	534.4	532.2	532.2	534.4	533.3	534.4	534.4	536.6	536.6	538.9
35°	495.7	495.7	493.4	494.5	494.5	494.5	494.5	496.8	499.0	500.1	502.4
37.5°	458.0	454.8	455.9	455.9	456.9	455.9	459.2	459.2	461.4	461.4	463.6
40°	417.2	417.2	418.3	417.2	418.3	418.3	420.4	422.7	423.8	426.0	427.1
42.5°	378.4	380.7	378.4	379.6	380.7	381.7	382.8	383.9	388.4	390.5	393.9
45°	342.9	344.1	345.2	346.3	345.2	347.4	348.5	350.8	354.0	355.2	356.3
47.5°	308.7	309.8	310.9	312.0	312.0	314.3	315.3	317.5	319.8	320.9	322.0
50°	275.5	277.8	278.8	278.8	279.9	282.1	284.4	284.4	286.5	289.9	291.0
52.5°	245.6	245.6	247.9	249.0	250.0	250.0	253.4	254.5	255.6	257.7	260.0
55°	212.4	215.8	216.9	216.9	219.1	221.2	222.4	223.5	223.5	228.0	228.0
57.5°	183.6	184.7	187.0	187.0	187.0	190.3	190.3	192.6	193.6	194.7	196.9
60°	155.0	157.1	157.1	158.2	157.1	159.3	160.4	162.7	163.8	164.8	165.9
62.5°	128.3	128.3	129.4	129.4	129.4	129.4	131.7	131.7	133.9	135.0	136.0
65°	102.9	102.9	102.9	102.9	102.9	102.9	102.9	102.9	104.0	104.0	106.2
67.5°	79.7	78.6	76.4	77.5	76.4	76.4	75.2	75.2	76.4	76.4	78.6
70°	57.5	56.4	54.2	54.2	53.1	52.1	50.9	49.8	48.7	48.7	48.7
72.5°	37.6	35.4	32.1	31.0	31.0	28.8	26.5	25.4	25.4	25.4	25.4
75°	18.8	16.6	14.3	13.3	13.3	11.1	12.2	11.1	11.1	11.1	11.1
77.5°	7.7	5.5	4.5	4.5	4.5	3.4	3.4	3.4	3.4	3.4	3.4
80°	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	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
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

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



TEST NUMBER: P583872

CATALOG NUMBER: HCC8S15D010MB-HM80520835-81RWWC

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	828.8	828.8	828.8	828.8	828.8	828.8	828.8	828.8
2.5°	824.3	824.3	822.1	823.3	823.3	823.3	823.3	823.3
5°	814.3	815.4	814.3	815.4	815.4	814.3	814.3	814.3
7.5°	804.3	805.5	804.3	805.5	805.5	805.5	804.3	804.3
10°	792.2	792.2	792.2	792.2	792.2	791.1	792.2	792.2
12.5°	775.7	775.7	775.7	776.7	776.7	775.7	775.7	774.6
15°	757.9	755.7	756.9	757.9	756.9	756.9	756.9	756.9
17.5°	733.6	734.7	733.6	733.6	733.6	733.6	734.7	733.6
20°	708.2	708.2	709.3	708.2	708.2	708.2	708.2	707.0
22.5°	679.4	678.3	678.3	679.4	679.4	678.3	679.4	679.4
25°	647.3	648.4	647.3	647.3	648.4	648.4	648.4	647.3
27.5°	613.0	614.1	615.2	614.1	614.1	614.1	615.2	616.4
30°	577.6	579.8	577.6	577.6	579.8	578.6	579.8	579.8
32.5°	540.0	543.2	541.0	543.2	543.2	544.4	543.2	544.4
35°	502.4	505.6	505.6	505.6	506.7	507.9	507.9	506.7
37.5°	466.9	468.0	468.0	470.2	471.4	472.5	472.5	471.4
40°	430.4	432.6	433.7	433.7	433.7	436.0	438.1	436.0
42.5°	395.0	396.1	397.2	397.2	399.5	400.5	401.6	401.6
45°	360.7	362.9	364.0	365.1	366.2	368.5	367.4	369.6
47.5°	325.4	328.6	329.7	330.8	333.1	334.1	335.2	336.3
50°	293.2	295.5	295.5	297.6	301.0	301.0	303.2	304.3
52.5°	261.1	262.2	263.3	264.5	266.7	268.8	268.8	271.1
55°	230.2	231.2	231.2	232.3	233.4	237.9	239.0	239.0
57.5°	198.1	198.1	200.3	201.4	202.4	204.7	204.7	204.7
60°	167.1	168.2	168.2	169.3	170.4	172.6	173.8	172.6
62.5°	136.0	137.2	137.2	138.3	140.5	141.6	140.5	140.5
65°	107.4	108.4	108.4	109.5	111.7	111.7	110.6	111.7
67.5°	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
70°	49.8	48.7	47.6	48.7	48.7	48.7	47.6	49.8
72.5°	24.3	25.4	25.4	25.4	25.4	25.4	25.4	24.3
75°	11.1	11.1	10.0	10.0	10.0	11.1	11.1	10.0
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	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
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)