

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: P583744

Luminaire Tested: **HCC8W10D010MB-HM80520835-81WWW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W10D010MB-HM80520835-81WWW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

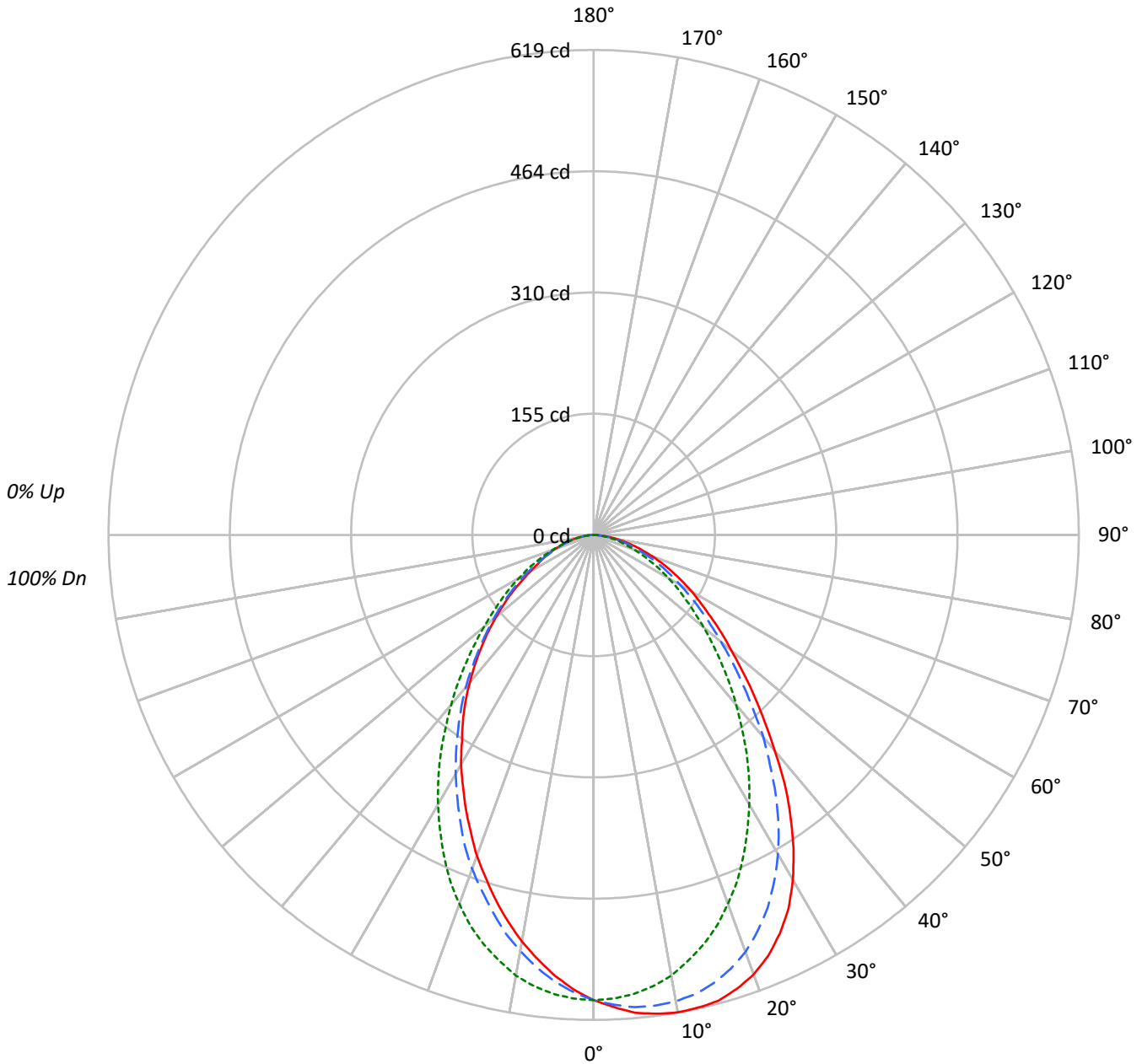
Lumens per Lamp: N/A
Luminaire Lumens: 1095.9 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.04 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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: P583744
CATALOG NUMBER: HCC8W10D010MB-HM80520835-81WWW

Luminous Intensity Polar Plot





TEST NUMBER: P583744

CATALOG NUMBER: HCC8W10D010MB-HM80520835-81WWW

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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76								
3	94	85	78	72	92	83	77	71	81	75	70	78	73	69	75	71	68	66								
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	68	64	60	58								
5	81	69	61	55	79	68	61	55	66	60	54	64	59	54	63	57	53	51								
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46								
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	41								
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38								
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34								
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	18311	18311	18311
5°	18953	18204	17483
10°	19376	17885	16501
15°	19649	17284	15407
20°	19591	16444	14301
25°	19108	15379	13133
30°	18099	14139	12049
35°	16469	12799	10951
40°	14463	11384	9890
45°	12612	10013	8818
50°	10981	8774	7767
55°	9790	7709	6758
60°	8893	6759	5766
65°	7997	5874	5239
70°	7123	5004	4724
75°	6243	4230	4039
80°	5292	3445	3587
85°	3998	2547	2866



TEST NUMBER: P583744
 CATALOG NUMBER: HCC8W10D010MB-HM80520835-81WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.6	5.1
10°-20°	153.2	14.0
20°-30°	212.7	19.4
30°-40°	219.9	20.1
40°-50°	184.1	16.8
50°-60°	133.7	12.2
60°-70°	84.4	7.7
70°-80°	41.8	3.8
80°-90°	10.4	0.9
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°	421.6	38.5
0°-40°	641.5	58.5
0°-60°	959.3	87.5
0°-90°	1095.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1095.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	594	594	594	594	594	
5°	612	605	588	572	565	59
15°	616	592	541	498	483	173
25°	562	525	452	403	386	257
35°	438	405	340	301	291	272
45°	289	268	230	207	202	224
55°	182	166	143	131	126	164
65°	110	96	80	71	72	109
75°	52	44	36	34	34	56
85°	11	9	7	8	8	14
90°	0	0	0	0	0	

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



TEST NUMBER: P583744

CATALOG NUMBER: HCC8W10D010MB-HM80520835-81WWW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	593.8	593.8	593.8	593.8	593.8	593.8	593.8	593.8	593.8	593.8	593.8
2.5°	603.4	603.4	604.2	603.4	603.4	603.4	602.7	602.7	601.8	601.8	600.3
5°	612.3	610.7	612.3	610.7	610.7	610.7	609.9	608.3	607.5	605.9	605.1
7.5°	616.4	615.5	615.5	614.7	614.7	614.0	613.1	612.3	609.1	608.3	605.9
10°	618.8	617.9	617.9	617.1	615.5	615.5	614.0	613.1	609.1	607.5	604.2
12.5°	617.9	617.9	617.9	617.1	614.7	614.0	612.3	609.9	606.6	603.4	600.3
15°	615.5	615.5	614.0	613.1	610.7	609.1	608.3	604.2	601.0	597.0	592.2
17.5°	607.5	607.5	606.6	605.1	602.7	601.0	599.4	595.4	592.2	585.7	580.9
20°	597.0	596.2	595.4	592.9	590.5	589.7	587.3	581.6	577.7	572.9	566.4
22.5°	581.6	580.9	580.1	578.5	574.4	572.9	571.2	567.2	559.9	555.1	547.0
25°	561.6	561.6	559.9	557.5	553.5	551.8	549.4	545.5	539.0	531.8	525.3
27.5°	538.1	537.4	535.0	533.3	530.1	527.7	523.7	518.9	512.4	506.8	498.7
30°	508.3	508.3	506.8	504.4	500.3	498.7	495.5	489.8	483.4	476.1	470.5
32.5°	474.5	474.5	472.1	470.5	468.1	464.1	463.3	456.8	451.2	445.6	439.1
35°	437.5	438.2	436.7	433.4	429.5	429.5	427.8	422.1	415.8	410.1	405.3
37.5°	400.4	398.0	397.1	395.6	393.2	389.9	388.4	386.0	380.3	376.2	369.0
40°	359.3	360.1	358.6	356.9	356.2	353.7	352.9	348.8	344.9	340.0	336.8
42.5°	322.3	322.3	322.3	320.7	319.0	316.6	315.8	313.4	308.6	305.3	300.5
45°	289.2	286.8	286.8	286.0	285.2	283.6	281.1	279.6	276.3	273.9	268.3
47.5°	257.0	257.8	257.0	256.1	253.7	253.0	252.2	248.9	245.7	243.3	239.3
50°	228.9	230.4	228.9	228.9	227.2	226.3	224.8	222.4	220.0	215.9	211.9
52.5°	205.4	205.4	204.7	203.9	201.5	199.8	199.1	198.2	194.1	191.0	187.8
55°	182.1	182.9	182.9	180.4	179.7	178.0	177.3	174.9	173.2	168.4	166.0
57.5°	161.9	161.2	161.9	160.3	158.7	157.1	156.3	154.7	152.3	149.0	145.8
60°	144.2	142.6	142.6	141.8	140.2	139.4	137.7	135.3	132.9	129.7	127.3
62.5°	126.5	125.7	124.9	124.0	122.5	121.6	120.8	118.4	116.0	113.6	111.2
65°	109.6	109.6	108.8	107.1	106.4	105.5	104.7	103.1	99.9	98.3	95.9
67.5°	94.2	93.5	93.5	91.8	90.3	89.4	89.4	87.9	85.3	82.9	81.4
70°	79.0	79.8	79.0	78.1	76.6	76.6	74.9	74.2	70.9	70.1	67.7
72.5°	65.3	65.3	64.4	64.4	62.9	62.0	62.0	60.5	58.8	57.2	55.5
75°	52.4	52.4	52.4	51.6	50.7	49.2	49.2	48.3	46.8	45.1	43.5
77.5°	41.1	40.3	40.3	39.4	38.7	37.9	37.9	37.0	35.5	34.6	33.1
80°	29.8	29.0	29.0	29.0	27.4	28.2	27.4	26.6	25.7	25.0	24.2
82.5°	19.4	20.2	20.2	19.4	18.5	18.5	18.5	17.7	17.7	16.9	16.1
85°	11.3	11.3	11.3	11.3	10.5	10.5	10.5	9.6	9.6	9.6	8.9
87.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.1	4.1	4.1	4.1	4.1
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: P583744

CATALOG NUMBER: HCC8W10D010MB-HM80520835-81WWW

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	593.8	593.8	593.8	593.8	593.8	593.8	593.8	593.8	593.8	593.8	593.8
2.5°	600.3	598.6	597.8	597.0	597.0	596.2	595.4	593.8	593.8	592.2	591.4
5°	603.4	601.0	599.4	597.8	597.0	595.4	593.8	591.4	590.5	588.1	585.7
7.5°	604.2	600.3	598.6	595.4	593.8	592.2	589.0	586.6	583.3	580.9	577.7
10°	601.0	597.8	593.8	589.7	589.0	586.6	581.6	578.5	574.4	571.2	566.4
12.5°	596.2	591.4	587.3	582.5	580.1	577.7	572.9	567.9	562.4	556.8	551.8
15°	588.1	582.5	576.8	571.2	567.9	565.5	559.9	554.4	548.7	541.4	536.6
17.5°	576.1	569.6	564.0	556.8	553.5	551.1	543.8	537.4	530.1	522.9	518.1
20°	560.7	552.7	546.3	538.1	535.7	531.8	524.6	517.2	509.2	501.1	495.5
22.5°	540.7	532.6	525.3	517.2	513.3	509.2	502.0	493.1	485.0	478.5	473.0
25°	517.2	510.0	501.1	493.9	489.1	484.2	476.1	468.9	461.7	452.0	446.3
27.5°	491.5	482.6	476.1	466.5	461.7	458.4	449.5	439.9	433.4	424.5	418.2
30°	462.4	454.4	447.1	437.5	432.6	429.5	421.4	412.5	406.0	397.1	390.8
32.5°	431.9	423.0	414.1	407.7	402.1	398.8	389.9	384.3	376.2	369.0	361.8
35°	398.8	389.9	383.6	374.7	371.4	368.2	361.0	353.7	346.4	340.0	334.4
37.5°	363.4	356.9	349.7	343.2	340.8	337.5	328.7	322.3	316.6	310.2	305.3
40°	328.7	323.1	318.3	311.8	307.7	305.3	298.9	293.3	286.8	282.8	277.9
42.5°	297.3	290.9	286.0	281.1	277.2	274.8	269.1	265.0	260.2	256.1	250.6
45°	264.3	261.1	255.4	251.3	248.9	245.7	241.7	236.9	232.8	229.6	225.6
47.5°	235.2	232.0	228.0	223.2	221.5	219.1	215.2	211.9	208.7	205.4	201.5
50°	208.7	204.7	201.5	198.2	196.5	194.1	190.2	188.5	186.1	182.9	180.4
52.5°	184.5	181.3	178.0	174.0	173.2	171.6	169.2	166.0	163.6	161.9	160.3
55°	162.8	159.5	157.1	153.9	153.1	151.5	148.2	146.6	145.1	143.4	141.8
57.5°	143.4	140.2	136.9	135.3	133.8	132.1	131.4	128.9	127.3	126.5	124.9
60°	125.7	122.5	120.1	117.7	116.8	116.0	114.4	112.7	111.2	109.6	108.8
62.5°	108.8	105.5	104.0	102.3	100.7	100.7	99.0	97.5	95.9	95.1	93.5
65°	93.5	91.8	89.4	87.0	86.2	86.2	83.8	82.9	82.2	80.5	79.0
67.5°	79.0	77.3	74.9	74.2	73.3	72.5	71.8	70.1	68.5	67.7	66.1
70°	66.1	64.4	62.9	62.0	61.2	60.5	58.8	58.1	56.4	55.5	54.8
72.5°	53.1	52.4	50.7	50.0	49.2	48.3	47.5	46.8	45.1	44.4	43.5
75°	42.7	41.9	40.3	39.4	38.7	38.7	37.9	36.3	35.5	35.5	34.6
77.5°	32.2	31.4	30.7	29.8	29.0	29.0	28.2	27.4	26.6	26.6	25.7
80°	23.3	22.6	21.8	21.8	21.8	20.9	20.2	20.2	19.4	19.4	18.5
82.5°	15.3	15.3	14.5	14.5	14.5	13.7	13.7	12.9	12.9	12.9	12.9
85°	8.9	8.9	8.9	8.1	8.1	8.1	8.1	8.1	8.1	7.2	8.1
87.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	3.2	3.2	3.2
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: P583744

CATALOG NUMBER: HCC8W10D010MB-HM80520835-81WWW

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	593.8	593.8	593.8	593.8	593.8	593.8	593.8	593.8	593.8	593.8	593.8
2.5°	590.5	589.7	588.1	588.1	586.6	586.6	585.7	584.9	584.2	583.3	582.5
5°	584.9	581.6	580.1	579.2	577.7	576.8	574.4	572.9	572.0	570.5	568.8
7.5°	574.4	571.2	567.9	567.2	566.4	563.1	560.7	558.3	556.8	555.1	553.5
10°	562.4	559.2	555.1	553.5	551.8	547.9	544.6	542.2	539.0	535.7	535.0
12.5°	547.9	543.1	538.1	536.6	534.2	530.1	527.0	522.9	520.5	516.4	515.7
15°	530.9	525.3	521.3	517.2	515.7	511.6	505.9	502.8	497.9	496.3	492.2
17.5°	510.8	505.2	499.6	497.9	495.5	489.8	484.2	480.2	475.4	473.0	470.5
20°	489.8	482.6	477.0	475.4	472.1	467.3	461.7	457.6	453.6	448.7	446.3
22.5°	465.7	457.6	452.8	448.7	448.0	442.3	435.8	432.6	429.5	425.4	422.1
25°	439.1	431.9	426.2	423.0	421.4	416.5	411.7	407.7	402.8	400.4	396.4
27.5°	411.7	406.9	399.7	396.4	394.0	389.9	384.3	381.9	377.1	373.8	371.4
30°	385.1	377.9	373.8	369.9	367.3	363.4	358.6	356.2	352.1	348.8	346.4
32.5°	356.2	351.2	345.7	344.0	340.8	336.8	333.6	329.5	326.3	323.1	322.3
35°	329.5	323.1	317.4	315.8	313.4	309.4	307.7	305.3	301.3	300.5	297.3
37.5°	300.5	297.3	290.9	288.5	287.6	284.4	281.1	279.6	277.2	274.8	273.9
40°	273.1	269.1	265.9	263.5	261.8	259.4	256.1	255.4	253.7	250.6	249.8
42.5°	247.4	243.3	240.0	239.3	236.9	234.5	232.8	230.4	229.6	228.9	227.2
45°	222.4	220.0	216.7	215.9	215.2	211.9	210.2	208.7	207.1	206.3	204.7
47.5°	199.8	197.4	195.0	194.1	192.6	191.7	189.3	188.5	186.1	185.3	184.5
50°	178.0	176.5	174.9	174.0	172.4	171.6	170.0	168.4	166.7	166.0	165.2
52.5°	158.7	157.1	155.5	154.7	153.9	152.3	150.6	149.0	148.2	147.5	146.6
55°	140.2	138.6	137.7	136.9	136.2	135.3	132.9	132.1	131.4	130.5	128.9
57.5°	123.3	121.6	120.1	120.1	119.2	118.4	116.8	115.3	115.3	113.6	112.0
60°	107.9	106.4	104.7	104.0	103.1	101.6	100.7	99.9	99.0	98.3	96.6
62.5°	91.8	91.0	89.4	89.4	87.9	87.0	86.2	85.3	84.6	82.9	82.2
65°	78.1	77.3	75.7	74.9	74.9	74.2	72.5	71.8	70.9	70.9	70.1
67.5°	65.3	64.4	62.9	62.0	62.0	61.2	60.5	60.5	59.6	58.8	59.6
70°	54.0	52.4	52.4	51.6	51.6	50.7	50.0	50.0	50.0	50.7	50.7
72.5°	42.7	41.9	41.1	41.1	41.1	41.1	40.3	40.3	41.1	41.9	41.9
75°	33.9	33.1	33.1	33.1	32.2	32.2	33.1	33.1	33.9	33.9	33.9
77.5°	25.0	25.0	25.0	25.0	25.0	25.0	25.7	25.7	26.6	26.6	26.6
80°	18.5	18.5	18.5	18.5	18.5	19.4	19.4	19.4	19.4	19.4	20.2
82.5°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	13.7	13.7	13.7	13.7
85°	7.2	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
87.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
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: P583744

CATALOG NUMBER: HCC8W10D010MB-HM80520835-81WWW

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	593.8	593.8	593.8	593.8	593.8	593.8	593.8	593.8
2.5°	581.6	581.6	581.6	582.5	580.9	580.9	580.9	580.9
5°	567.9	567.2	566.4	567.2	565.5	565.5	564.8	564.8
7.5°	551.1	550.3	549.4	549.4	547.9	547.9	547.0	546.3
10°	532.6	530.9	531.8	530.1	529.4	528.5	527.7	527.0
12.5°	512.4	510.8	510.0	508.3	506.8	505.9	506.8	505.2
15°	490.7	488.3	487.4	485.8	484.2	483.4	483.4	482.6
17.5°	466.5	464.9	464.1	462.4	461.7	460.0	459.3	458.4
20°	443.9	439.9	440.7	439.1	438.2	435.1	435.1	435.8
22.5°	418.9	416.5	414.9	413.4	412.5	410.8	410.8	410.1
25°	394.0	391.6	390.8	389.1	388.4	386.7	386.0	386.0
27.5°	369.9	366.6	366.6	364.9	363.4	362.5	361.8	361.0
30°	344.0	341.6	340.8	340.8	340.0	340.0	337.5	338.4
32.5°	319.9	318.3	317.4	315.8	315.8	315.0	315.0	312.6
35°	295.7	293.3	294.1	292.4	291.6	290.9	291.6	290.9
37.5°	272.4	270.7	270.7	269.1	269.1	268.3	267.4	269.1
40°	248.9	248.1	247.4	246.5	247.4	246.5	245.0	245.7
42.5°	225.6	225.6	224.8	224.8	223.9	223.9	223.9	223.9
45°	204.7	203.9	203.9	203.0	203.0	203.0	203.0	202.2
47.5°	183.7	182.9	182.9	182.9	182.1	182.1	181.3	182.1
50°	163.6	163.6	162.8	162.8	163.6	162.8	161.9	161.9
52.5°	145.1	145.1	144.2	144.2	143.4	142.6	143.4	143.4
55°	128.1	127.3	126.5	126.5	125.7	124.9	124.9	125.7
57.5°	112.0	111.2	110.3	110.3	108.8	107.9	107.9	107.9
60°	96.6	95.1	95.1	94.2	94.2	93.5	93.5	93.5
62.5°	82.2	81.4	81.4	81.4	81.4	80.5	80.5	80.5
65°	70.1	70.1	70.1	70.9	70.9	71.8	71.8	71.8
67.5°	60.5	61.2	61.2	61.2	62.0	62.0	62.0	61.2
70°	51.6	51.6	51.6	52.4	52.4	52.4	52.4	52.4
72.5°	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
75°	33.9	34.6	34.6	34.6	33.9	34.6	34.6	33.9
77.5°	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6
80°	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
82.5°	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
85°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
87.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
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)