

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: P584182

Luminaire Tested: **HCC8S25D010MB-HM82555927-81WWW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584182
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: HCC8S25D010MB-HM82555927-81WWW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

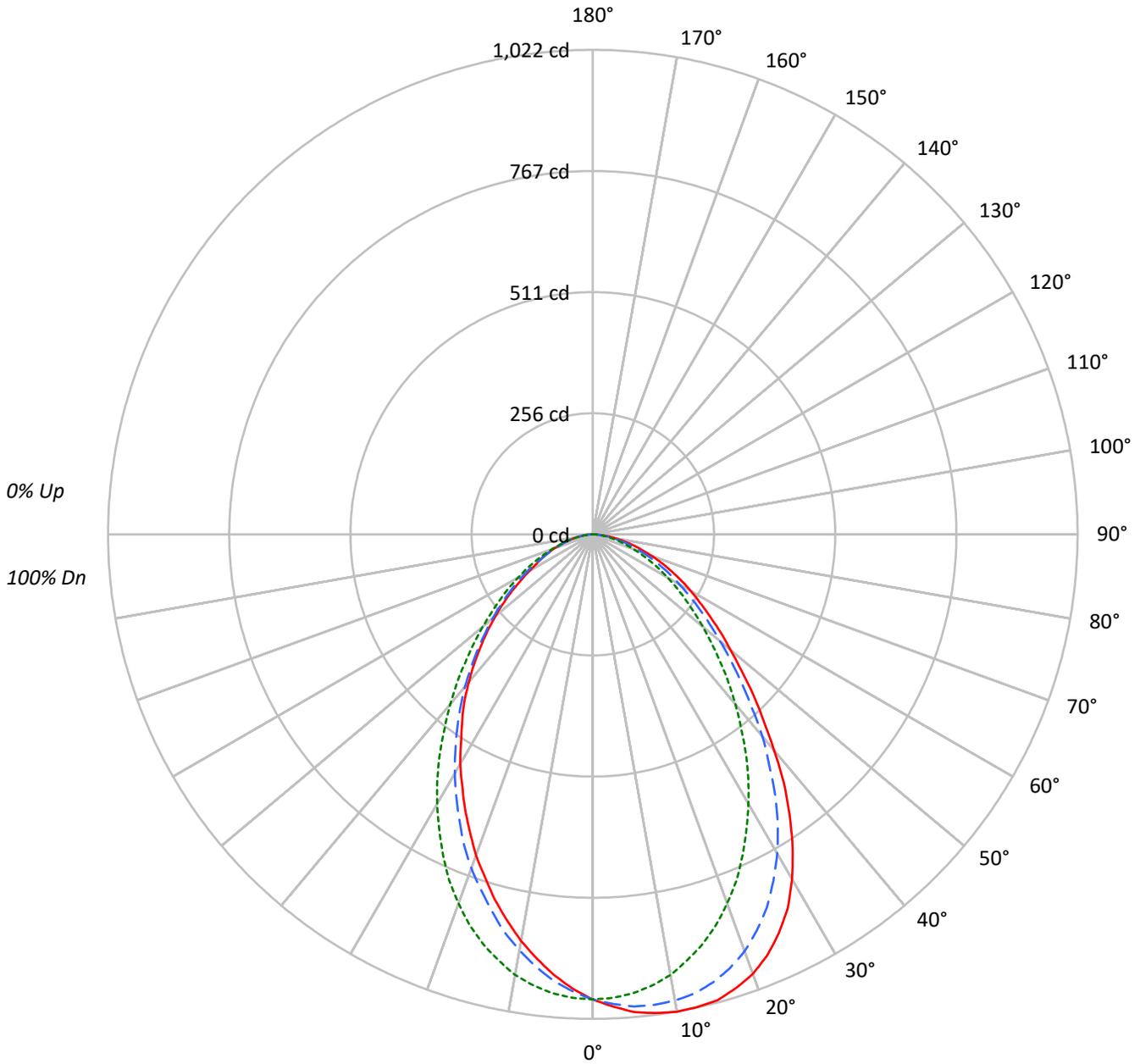
Lumens per Lamp: N/A
Luminaire Lumens: 1810.8 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.04 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 26.8
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: P584182
CATALOG NUMBER: HCC8S25D010MB-HM82555927-81WWW

Luminous Intensity Polar Plot





TEST NUMBER: P584182

CATALOG NUMBER: HCC8S25D010MB-HM82555927-81WWW

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°	30257	30257	30257
5°	31319	30081	28889
10°	32013	29552	27263
15°	32470	28559	25459
20°	32369	27174	23634
25°	31571	25413	21697
30°	29913	23369	19911
35°	27213	21149	18088
40°	23899	18811	16347
45°	20845	16545	14574
50°	18134	14497	12838
55°	16177	12741	11166
60°	14697	11163	9522
65°	13207	9712	8639
70°	11757	8277	7808
75°	10318	6970	6672
80°	8737	5683	5913
85°	6581	4246	4706



TEST NUMBER: P584182
 CATALOG NUMBER: HCC8S25D010MB-HM82555927-81WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.9	5.1
10°-20°	253.2	14.0
20°-30°	351.5	19.4
30°-40°	363.4	20.1
40°-50°	304.3	16.8
50°-60°	220.9	12.2
60°-70°	139.4	7.7
70°-80°	69.1	3.8
80°-90°	17.2	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°	696.6	38.5
0°-40°	1060.0	58.5
0°-60°	1585.1	87.5
0°-90°	1810.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1810.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	981	981	981	981	981	
5°	1012	1000	972	945	933	97
15°	1017	978	895	823	798	286
25°	928	868	747	666	638	425
35°	723	670	562	498	480	450
45°	478	443	379	342	334	370
55°	301	274	237	217	208	272
65°	181	158	133	117	118	181
75°	87	72	58	56	56	93
85°	19	15	12	13	13	23
90°	0	0	0	0	0	

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



TEST NUMBER: P584182

CATALOG NUMBER: HCC8S25D010MB-HM82555927-81WWW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	981.2	981.2	981.2	981.2	981.2	981.2	981.2	981.2	981.2	981.2	981.2
2.5°	997.1	997.1	998.4	997.1	997.1	997.1	995.7	995.7	994.5	994.5	991.8
5°	1011.8	1009.1	1011.8	1009.1	1009.1	1009.1	1007.7	1005.2	1003.8	1001.1	999.8
7.5°	1018.4	1017.1	1017.1	1015.8	1015.8	1014.5	1013.1	1011.8	1006.4	1005.2	1001.1
10°	1022.4	1021.1	1021.1	1019.7	1017.1	1017.1	1014.5	1013.1	1006.4	1003.8	998.4
12.5°	1021.1	1021.1	1021.1	1019.7	1015.8	1014.5	1011.8	1007.7	1002.5	997.1	991.8
15°	1017.1	1017.1	1014.5	1013.1	1009.1	1006.4	1005.2	998.4	993.2	986.4	978.5
17.5°	1003.8	1003.8	1002.5	999.8	995.7	993.2	990.5	983.8	978.5	967.8	959.9
20°	986.4	985.1	983.8	979.8	975.8	974.4	970.5	961.2	954.5	946.5	935.9
22.5°	961.2	959.9	958.5	955.8	949.2	946.5	943.8	937.2	925.2	917.2	903.9
25°	927.9	927.9	925.2	921.3	914.5	912.0	907.9	901.3	890.7	878.7	868.0
27.5°	889.3	888.0	883.9	881.3	876.0	871.9	865.3	857.3	846.7	837.4	824.0
30°	840.1	840.1	837.4	833.4	826.7	824.0	818.8	809.5	798.8	786.8	777.5
32.5°	784.1	784.1	780.1	777.5	773.5	766.8	765.5	754.8	745.5	736.2	725.6
35°	722.9	724.2	721.5	716.3	709.5	709.5	706.9	697.5	686.9	677.6	669.6
37.5°	661.7	657.6	656.3	653.7	649.7	644.4	641.7	637.7	628.4	621.7	609.7
40°	593.7	595.0	592.5	589.8	588.4	584.4	583.0	576.4	569.8	561.8	556.5
42.5°	532.5	532.5	532.5	529.9	527.2	523.2	521.8	517.9	509.9	504.5	496.6
45°	478.0	473.9	473.9	472.6	471.2	468.7	464.6	461.9	456.7	452.6	443.3
47.5°	424.7	426.0	424.7	423.3	419.3	418.0	416.7	411.4	406.1	402.0	395.4
50°	378.0	380.7	378.0	378.0	375.5	374.1	371.4	367.4	363.5	356.7	350.1
52.5°	339.5	339.5	338.1	336.8	332.8	330.2	328.8	327.5	320.8	315.5	310.2
55°	300.9	302.2	302.2	298.2	296.9	294.2	292.9	288.9	286.2	278.2	274.2
57.5°	267.6	266.2	267.6	264.9	262.3	259.6	258.3	255.6	251.6	246.3	241.0
60°	238.3	235.6	235.6	234.3	231.7	230.3	227.7	223.6	219.7	214.3	210.4
62.5°	209.0	207.7	206.3	205.0	202.3	201.1	199.7	195.7	191.7	187.7	183.7
65°	181.0	181.0	179.8	177.1	175.7	174.4	173.0	170.5	165.1	162.4	158.5
67.5°	155.8	154.4	154.4	151.7	149.1	147.8	147.8	145.1	141.1	137.2	134.5
70°	130.4	131.8	130.4	129.1	126.5	126.5	123.8	122.5	117.2	115.8	111.8
72.5°	107.9	107.9	106.5	106.5	103.8	102.5	102.5	99.8	97.2	94.5	91.8
75°	86.6	86.6	86.6	85.2	83.9	81.2	81.2	79.9	77.3	74.6	71.9
77.5°	67.9	66.6	66.6	65.3	63.9	62.6	62.6	61.2	58.5	57.2	54.6
80°	49.2	47.9	47.9	47.9	45.3	46.5	45.3	44.0	42.6	41.3	39.9
82.5°	32.0	33.3	33.3	32.0	30.6	30.6	30.6	29.3	29.3	27.9	26.6
85°	18.6	18.6	18.6	18.6	17.3	17.3	17.3	15.9	15.9	15.9	14.7
87.5°	8.0	8.0	8.0	8.0	8.0	8.0	6.6	6.6	6.6	6.6	6.6
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: P584182

CATALOG NUMBER: HCC8S25D010MB-HM82555927-81WWW

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	981.2	981.2	981.2	981.2	981.2	981.2	981.2	981.2	981.2	981.2	981.2
2.5°	991.8	989.1	987.8	986.4	986.4	985.1	983.8	981.2	981.2	978.5	977.1
5°	997.1	993.2	990.5	987.8	986.4	983.8	981.2	977.1	975.8	971.8	967.8
7.5°	998.4	991.8	989.1	983.8	981.2	978.5	973.2	969.2	963.9	959.9	954.5
10°	993.2	987.8	981.2	974.4	973.2	969.2	961.2	955.8	949.2	943.8	935.9
12.5°	985.1	977.1	970.5	962.5	958.5	954.5	946.5	938.5	929.2	919.9	912.0
15°	971.8	962.5	953.2	943.8	938.5	934.5	925.2	915.9	906.6	894.6	886.6
17.5°	951.9	941.2	931.9	919.9	914.5	910.6	898.6	888.0	876.0	864.0	856.0
20°	926.5	913.2	902.7	889.3	885.3	878.7	866.7	854.7	841.3	828.1	818.8
22.5°	893.2	880.0	868.0	854.7	848.0	841.3	829.4	814.7	801.4	790.7	781.4
25°	854.7	842.7	828.1	816.1	808.1	800.1	786.8	774.8	762.8	746.9	737.6
27.5°	812.0	797.5	786.8	770.8	762.8	757.5	742.9	726.9	716.3	701.6	690.9
30°	764.2	750.8	738.8	722.9	714.9	709.5	696.2	681.6	671.0	656.3	645.6
32.5°	713.6	698.9	684.3	673.7	664.3	659.0	644.4	635.0	621.7	609.7	597.7
35°	659.0	644.4	633.7	619.0	613.8	608.4	596.4	584.4	572.4	561.8	552.4
37.5°	600.4	589.8	577.8	567.1	563.1	557.8	543.1	532.5	523.2	512.5	504.5
40°	543.1	533.8	525.8	515.2	508.6	504.5	493.9	484.6	473.9	467.3	459.2
42.5°	491.2	480.5	472.6	464.6	458.0	454.0	444.7	438.0	430.0	423.3	414.0
45°	436.7	431.3	422.0	415.4	411.4	406.1	399.4	391.4	384.8	379.4	372.8
47.5°	388.7	383.4	376.7	368.7	366.0	362.1	355.5	350.1	344.8	339.5	332.8
50°	344.8	338.1	332.8	327.5	324.9	320.8	314.2	311.5	307.5	302.2	298.2
52.5°	304.8	299.5	294.2	287.5	286.2	283.6	279.6	274.2	270.3	267.6	264.9
55°	268.9	263.5	259.6	254.2	252.9	250.3	244.9	242.2	239.7	237.0	234.3
57.5°	237.0	231.7	226.3	223.6	221.0	218.3	217.0	213.0	210.4	209.0	206.3
60°	207.7	202.3	198.4	194.3	193.0	191.7	189.1	186.4	183.7	181.0	179.8
62.5°	179.8	174.4	171.7	169.1	166.4	166.4	163.7	161.0	158.5	157.1	154.4
65°	154.4	151.7	147.8	143.8	142.4	142.4	138.5	137.2	135.8	133.1	130.4
67.5°	130.4	127.8	123.8	122.5	121.1	119.8	118.4	115.8	113.2	111.8	109.1
70°	109.1	106.5	103.8	102.5	101.2	99.8	97.2	95.9	93.2	91.8	90.5
72.5°	87.8	86.6	83.9	82.5	81.2	79.9	78.5	77.3	74.6	73.2	71.9
75°	70.5	69.2	66.6	65.3	63.9	63.9	62.6	59.9	58.5	58.5	57.2
77.5°	53.3	51.9	50.6	49.2	47.9	47.9	46.5	45.3	44.0	44.0	42.6
80°	38.6	37.2	36.0	36.0	36.0	34.6	33.3	33.3	32.0	32.0	30.6
82.5°	25.3	25.3	24.0	24.0	24.0	22.7	22.7	21.3	21.3	21.3	21.3
85°	14.7	14.7	14.7	13.3	13.3	13.3	13.3	13.3	13.3	12.0	13.3
87.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	5.4	5.4	5.4
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: P584182

CATALOG NUMBER: HCC8S25D010MB-HM82555927-81WWW

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	981.2	981.2	981.2	981.2	981.2	981.2	981.2	981.2	981.2	981.2	981.2
2.5°	975.8	974.4	971.8	971.8	969.2	969.2	967.8	966.5	965.1	963.9	962.5
5°	966.5	961.2	958.5	957.2	954.5	953.2	949.2	946.5	945.2	942.6	939.9
7.5°	949.2	943.8	938.5	937.2	935.9	930.6	926.5	922.6	919.9	917.2	914.5
10°	929.2	923.9	917.2	914.5	912.0	905.2	900.0	895.9	890.7	885.3	883.9
12.5°	905.2	897.3	889.3	886.6	882.6	876.0	870.7	864.0	860.0	853.3	852.0
15°	877.3	868.0	861.4	854.7	852.0	845.4	836.0	830.7	822.7	820.0	813.4
17.5°	844.0	834.7	825.4	822.7	818.8	809.5	800.1	793.4	785.5	781.4	777.5
20°	809.5	797.5	788.2	785.5	780.1	772.1	762.8	756.2	749.5	741.5	737.6
22.5°	769.4	756.2	748.1	741.5	740.2	730.9	720.2	714.9	709.5	702.9	697.5
25°	725.6	713.6	704.3	698.9	696.2	688.2	680.3	673.7	665.6	661.7	654.9
27.5°	680.3	672.3	660.3	654.9	651.0	644.4	635.0	631.0	623.1	617.7	613.8
30°	636.3	624.3	617.7	611.1	607.0	600.4	592.5	588.4	581.8	576.4	572.4
32.5°	588.4	580.5	571.2	568.5	563.1	556.5	551.2	544.5	539.2	533.8	532.5
35°	544.5	533.8	524.5	521.8	517.9	511.2	508.6	504.5	497.9	496.6	491.2
37.5°	496.6	491.2	480.5	476.6	475.3	469.9	464.6	461.9	458.0	454.0	452.6
40°	451.3	444.7	439.3	435.3	432.7	428.6	423.3	422.0	419.3	414.0	412.7
42.5°	408.7	402.0	396.8	395.4	391.4	387.4	384.8	380.7	379.4	378.0	375.5
45°	367.4	363.5	358.1	356.7	355.5	350.1	347.4	344.8	342.2	340.8	338.1
47.5°	330.2	326.1	322.2	320.8	318.2	316.8	312.9	311.5	307.5	306.2	304.8
50°	294.2	291.6	288.9	287.5	284.9	283.6	280.9	278.2	275.5	274.2	273.0
52.5°	262.3	259.6	256.9	255.6	254.2	251.6	249.0	246.3	244.9	243.6	242.2
55°	231.7	229.0	227.7	226.3	225.0	223.6	219.7	218.3	217.0	215.7	213.0
57.5°	203.7	201.1	198.4	198.4	197.0	195.7	193.0	190.4	190.4	187.7	185.0
60°	178.4	175.7	173.0	171.7	170.5	167.8	166.4	165.1	163.7	162.4	159.8
62.5°	151.7	150.4	147.8	147.8	145.1	143.8	142.4	141.1	139.7	137.2	135.8
65°	129.1	127.8	125.2	123.8	123.8	122.5	119.8	118.4	117.2	117.2	115.8
67.5°	107.9	106.5	103.8	102.5	102.5	101.2	99.8	99.8	98.5	97.2	98.5
70°	89.2	86.6	86.6	85.2	85.2	83.9	82.5	82.5	82.5	83.9	83.9
72.5°	70.5	69.2	67.9	67.9	67.9	67.9	66.6	66.6	67.9	69.2	69.2
75°	56.0	54.6	54.6	54.6	53.3	53.3	54.6	54.6	56.0	56.0	56.0
77.5°	41.3	41.3	41.3	41.3	41.3	41.3	42.6	42.6	44.0	44.0	44.0
80°	30.6	30.6	30.6	30.6	30.6	32.0	32.0	32.0	32.0	32.0	33.3
82.5°	21.3	21.3	21.3	21.3	21.3	21.3	21.3	22.7	22.7	22.7	22.7
85°	12.0	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
87.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
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: P584182

CATALOG NUMBER: HCC8S25D010MB-HM82555927-81WWW

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	981.2	981.2	981.2	981.2	981.2	981.2	981.2	981.2
2.5°	961.2	961.2	961.2	962.5	959.9	959.9	959.9	959.9
5°	938.5	937.2	935.9	937.2	934.5	934.5	933.3	933.3
7.5°	910.6	909.3	907.9	907.9	905.2	905.2	903.9	902.7
10°	880.0	877.3	878.7	876.0	874.6	873.3	871.9	870.7
12.5°	846.7	844.0	842.7	840.1	837.4	836.0	837.4	834.7
15°	810.7	806.8	805.4	802.7	800.1	798.8	798.8	797.5
17.5°	770.8	768.2	766.8	764.2	762.8	760.1	758.8	757.5
20°	733.5	726.9	728.2	725.6	724.2	718.9	718.9	720.2
22.5°	692.3	688.2	685.7	683.0	681.6	678.9	678.9	677.6
25°	651.0	647.0	645.6	643.0	641.7	639.0	637.7	637.7
27.5°	611.1	605.7	605.7	603.1	600.4	599.1	597.7	596.4
30°	568.5	564.4	563.1	563.1	561.8	561.8	557.8	559.2
32.5°	528.5	525.8	524.5	521.8	521.8	520.6	520.6	516.5
35°	488.6	484.6	485.9	483.2	481.9	480.5	481.9	480.5
37.5°	449.9	447.3	447.3	444.7	444.7	443.3	442.0	444.7
40°	411.4	410.0	408.7	407.3	408.7	407.3	404.7	406.1
42.5°	372.8	372.8	371.4	371.4	370.1	370.1	370.1	370.1
45°	338.1	336.8	336.8	335.4	335.4	335.4	335.4	334.2
47.5°	303.6	302.2	302.2	302.2	300.9	300.9	299.5	300.9
50°	270.3	270.3	268.9	268.9	270.3	268.9	267.6	267.6
52.5°	239.7	239.7	238.3	238.3	237.0	235.6	237.0	237.0
55°	211.6	210.4	209.0	209.0	207.7	206.3	206.3	207.7
57.5°	185.0	183.7	182.4	182.4	179.8	178.4	178.4	178.4
60°	159.8	157.1	157.1	155.8	155.8	154.4	154.4	154.4
62.5°	135.8	134.5	134.5	134.5	134.5	133.1	133.1	133.1
65°	115.8	115.8	115.8	117.2	117.2	118.4	118.4	118.4
67.5°	99.8	101.2	101.2	101.2	102.5	102.5	102.5	101.2
70°	85.2	85.2	85.2	86.6	86.6	86.6	86.6	86.6
72.5°	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
75°	56.0	57.2	57.2	57.2	56.0	57.2	57.2	56.0
77.5°	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
80°	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
82.5°	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7
85°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
87.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
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)