

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: P583975

Luminaire Tested: **HCC8S20D010SL-HM80520827-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583975
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S20D010SL-HM80520827-81RWWH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

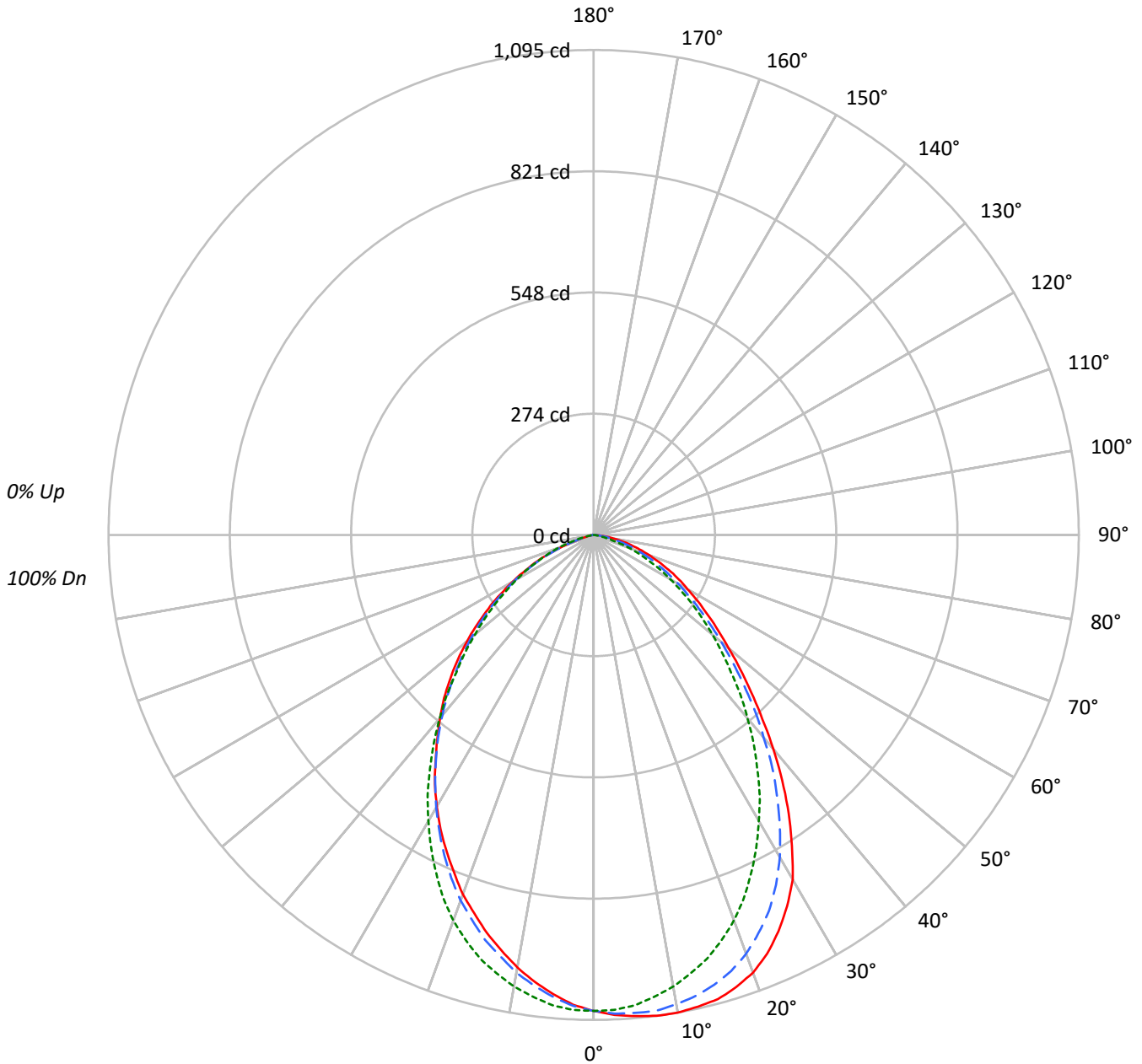
Lumens per Lamp: N/A
Luminaire Lumens: 2014.8 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P583975
CATALOG NUMBER: HCC8S20D010SL-HM80520827-81RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P583975

CATALOG NUMBER: HCC8S20D010SL-HM80520827-81RWWH

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	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77								
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67								
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59								
5	81	70	62	56	79	69	62	56	67	60	55	65	59	55	63	58	54	52								
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47								
7	71	58	51	45	69	58	50	45	56	49	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	41	37	47	41	37	46	41	36	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°	33143	33143	33143
5°	33762	32997	32229
10°	34290	32420	31052
15°	34638	31614	29709
20°	34505	30394	28339
25°	33592	28638	26757
30°	31996	26548	25202
35°	28892	24232	23411
40°	25384	21749	21693
45°	21914	19118	19942
50°	19074	16766	17884
55°	16908	14564	15580
60°	15091	12304	12933
65°	13601	9989	10200
70°	12081	7483	6041
75°	10401	4337	2609
80°	8027	1545	781
85°	5130	495	495

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



TEST NUMBER: P583975

CATALOG NUMBER: HCC8S20D010SL-HM80520827-81RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.9	5.0
10°-20°	280.9	13.9
20°-30°	397.3	19.7
30°-40°	418.6	20.8
40°-50°	355.8	17.7
50°-60°	256.2	12.7
60°-70°	147.8	7.3
70°-80°	50.6	2.5
80°-90°	7.0	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°	779.0	38.7
0°-40°	1197.6	59.4
0°-60°	1809.5	89.8
0°-90°	2014.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2014.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1075	1075	1075	1075	1075	
5°	1091	1084	1066	1047	1041	104
15°	1085	1052	990	947	931	305
25°	987	936	842	798	786	453
35°	768	722	644	620	622	478
45°	502	479	438	441	457	390
55°	314	290	271	281	290	283
65°	186	160	137	134	140	185
75°	87	66	36	23	22	92
85°	14	9	1	1	1	20
90°	0	0	0	0	0	

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



TEST NUMBER: P583975

CATALOG NUMBER: HCC8S20D010SL-HM80520827-81RWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1085.0	1086.4	1085.0	1085.0	1083.5	1082.0	1080.6	1079.2	1076.2	1073.3	1073.3
5°	1090.7	1093.7	1090.7	1090.7	1086.4	1083.5	1080.6	1076.2	1070.4	1066.0	1066.0
7.5°	1095.1	1095.1	1095.1	1090.7	1087.9	1083.5	1076.2	1068.9	1061.7	1054.3	1051.5
10°	1095.1	1095.1	1093.7	1087.9	1085.0	1076.2	1068.9	1058.7	1048.6	1038.4	1035.4
12.5°	1090.7	1092.3	1089.3	1083.5	1076.2	1066.0	1055.9	1042.8	1031.1	1019.5	1013.6
15°	1085.0	1083.5	1080.6	1073.3	1064.5	1051.5	1041.2	1026.7	1010.7	996.1	990.3
17.5°	1070.4	1070.4	1066.0	1058.7	1047.1	1032.5	1016.5	1000.4	983.1	967.0	959.7
20°	1051.5	1051.5	1045.6	1036.9	1025.3	1006.4	988.9	969.9	949.5	933.5	926.2
22.5°	1023.8	1025.3	1017.9	1007.8	994.7	972.8	955.3	932.0	911.7	892.8	886.9
25°	987.3	990.3	983.1	972.8	955.3	936.4	914.5	892.8	869.5	850.4	841.7
27.5°	945.1	946.7	939.3	929.2	911.7	891.2	869.5	846.1	824.3	803.9	795.1
30°	898.6	892.8	889.8	876.7	857.8	840.3	815.6	796.5	773.3	755.8	745.6
32.5°	833.0	835.9	827.2	817.0	802.5	782.0	761.7	739.8	717.9	704.8	697.6
35°	767.5	770.4	766.1	755.8	739.8	722.3	702.0	685.9	667.0	650.9	643.7
37.5°	699.0	699.0	696.1	690.3	678.6	662.6	642.2	626.2	610.1	597.1	592.8
40°	630.6	627.6	626.2	621.9	611.7	597.1	584.0	570.9	554.8	546.1	540.3
42.5°	563.6	563.6	560.6	556.4	546.1	538.9	525.8	511.2	499.5	490.8	490.8
45°	502.5	503.9	499.5	496.6	490.8	479.2	467.5	457.3	447.0	441.2	438.4
47.5°	448.6	448.6	444.2	441.2	435.4	425.3	415.0	406.3	399.0	394.7	393.3
50°	397.6	397.6	397.6	390.3	383.0	375.8	368.4	358.3	353.9	350.9	349.5
52.5°	353.9	352.5	352.5	346.6	339.4	330.6	323.3	314.5	310.2	307.3	308.7
55°	314.5	314.5	313.1	305.8	298.6	289.8	282.5	275.3	272.3	269.4	270.9
56°	298.6	298.6	297.0	291.2	282.5	275.3	266.5	259.2	254.8	256.3	256.3
57°	286.9	284.0	284.0	276.7	269.4	259.2	251.9	244.7	241.7	240.3	240.3
58°	272.3	270.9	269.4	262.2	254.8	246.1	238.9	231.6	227.2	227.2	225.8
59°	257.8	257.8	254.8	249.0	241.7	233.0	225.8	218.4	214.1	212.6	212.6
60°	244.7	246.1	241.7	235.9	230.1	219.9	211.2	205.3	200.9	199.5	199.5
61°	233.0	233.0	230.1	222.8	215.5	208.3	199.5	192.2	189.4	186.4	186.4
62°	222.8	219.9	218.4	211.2	203.9	195.1	187.8	180.6	176.2	173.3	174.7
63°	209.7	208.3	205.3	199.5	192.2	183.4	174.7	168.9	164.5	160.2	161.7
64°	199.5	198.1	193.7	187.8	180.6	171.9	163.1	157.3	154.4	150.0	148.6
65°	186.4	185.0	183.4	176.2	168.9	160.2	153.0	147.0	142.7	139.8	136.9
66°	174.7	176.2	173.3	167.5	158.7	151.4	141.2	135.5	132.5	128.1	125.3
67°	164.5	164.5	161.7	155.8	147.0	139.8	132.5	125.3	120.9	116.5	115.0
67.5°	158.7	158.7	155.8	148.6	142.7	134.0	126.7	120.9	115.0	112.2	109.2
68°	153.0	153.0	151.4	145.6	138.3	129.7	122.3	115.0	109.2	104.8	103.4
69°	142.7	144.2	141.2	135.5	128.1	119.4	112.2	106.3	100.5	96.1	93.3
70°	134.0	132.5	129.7	123.8	116.5	110.6	103.4	96.1	90.3	84.5	83.0
71°	122.3	122.3	119.4	115.0	107.8	100.5	93.3	87.3	81.6	74.2	72.8
72°	113.6	113.6	110.6	104.8	99.1	91.7	84.5	77.2	72.8	65.5	62.6
72.5°	107.8	109.2	106.3	100.5	94.7	85.9	80.1	74.2	67.0	61.1	58.3
73°	104.8	103.4	101.9	96.1	88.9	83.0	75.8	69.9	62.6	56.9	53.9



TEST NUMBER: P583975
 CATALOG NUMBER: HCC8S20D010SL-HM80520827-81RWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	65.5	65.5	64.1	58.3	52.5	46.6	40.8	35.0	29.1	23.3	20.3
80°	45.2	46.6	43.7	40.8	36.4	30.6	24.7	20.3	14.5	11.7	8.7
82.5°	29.1	29.1	27.7	24.7	21.9	17.5	14.5	10.2	7.3	5.8	4.4
85°	14.5	16.1	14.5	13.1	10.2	8.7	7.3	4.4	3.0	1.4	1.4
87.5°	5.8	5.8	5.8	4.4	4.4	3.0	1.4	1.4	1.4	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: P583975

CATALOG NUMBER: HCC8S20D010SL-HM80520827-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1070.4	1070.4	1067.5	1066.0	1064.5	1063.1	1061.7	1060.3	1060.3	1061.7
5°	1061.7	1058.7	1052.9	1051.5	1047.1	1045.6	1042.8	1041.2	1042.8	1041.2
7.5°	1048.6	1042.8	1035.4	1032.5	1026.7	1023.8	1019.5	1019.5	1016.5	1017.9
10°	1031.1	1022.3	1013.6	1007.8	1003.4	999.0	996.1	993.2	991.7	991.7
12.5°	1009.2	999.0	990.3	981.5	974.3	971.4	965.6	965.6	962.6	961.2
15°	984.5	971.4	961.2	952.5	946.7	940.8	936.4	933.5	930.6	930.6
17.5°	952.5	940.8	930.6	920.4	911.7	907.3	902.9	898.6	898.6	895.6
20°	917.5	904.3	895.6	885.4	878.1	870.9	865.1	865.1	862.2	863.6
22.5°	878.1	862.2	853.4	846.1	838.9	833.0	827.2	827.2	825.7	824.3
25°	834.5	821.4	811.2	802.5	798.1	792.3	790.8	787.9	786.4	786.4
27.5°	787.9	777.6	764.5	760.1	754.4	751.5	751.5	750.0	747.1	748.6
30°	738.4	726.7	719.4	716.5	710.7	710.7	709.2	706.4	706.4	707.8
32.5°	690.3	678.6	672.8	671.4	665.6	665.6	664.0	665.6	665.6	667.0
35°	637.9	627.6	626.2	621.9	620.4	620.4	620.4	623.3	626.2	621.9
37.5°	588.4	581.1	576.7	575.3	576.7	576.7	578.1	582.5	581.1	579.7
40°	537.3	531.5	528.6	528.6	531.5	534.5	534.5	538.9	540.3	538.9
42.5°	486.4	482.0	482.0	483.4	486.4	487.8	492.2	496.6	498.1	499.5
45°	438.4	438.4	438.4	439.8	441.2	444.2	450.0	454.4	455.8	457.3
47.5°	391.7	390.3	394.7	396.1	400.5	402.0	406.3	412.2	413.6	415.0
50°	348.1	350.9	352.5	356.8	359.7	359.7	365.6	368.4	372.8	372.8
52.5°	307.3	311.7	313.1	317.5	318.9	320.4	323.3	327.7	330.6	330.6
55°	270.9	272.3	275.3	276.7	281.1	282.5	285.5	286.9	291.2	289.8
56°	254.8	257.8	259.2	262.2	265.0	266.5	269.4	270.9	273.8	275.3
57°	240.3	241.7	246.1	247.6	250.5	250.5	251.9	256.3	256.3	257.8
58°	225.8	228.6	230.1	231.6	234.5	235.9	238.9	240.3	241.7	240.3
59°	212.6	214.1	215.5	215.5	218.4	218.4	222.8	225.8	227.2	227.2
60°	199.5	199.5	200.9	202.5	205.3	206.8	206.8	209.7	209.7	209.7
61°	186.4	186.4	187.8	189.4	190.8	190.8	193.7	193.7	195.1	196.6
62°	174.7	173.3	173.3	174.7	174.7	177.7	179.1	180.6	182.0	180.6
63°	161.7	160.2	160.2	160.2	160.2	163.1	163.1	164.5	167.5	166.1
64°	147.0	147.0	147.0	147.0	148.6	148.6	151.4	153.0	154.4	155.8
65°	136.9	134.0	132.5	132.5	134.0	135.5	136.9	138.3	139.8	139.8
66°	125.3	122.3	120.9	120.9	120.9	120.9	123.8	123.8	126.7	126.7
67°	112.2	109.2	107.8	106.3	106.3	106.3	110.6	109.2	109.2	109.2
67.5°	107.8	103.4	101.9	100.5	99.1	101.9	100.5	101.9	101.9	100.5
68°	101.9	99.1	96.1	93.3	93.3	93.3	94.7	96.1	94.7	93.3
69°	90.3	88.9	84.5	81.6	80.1	81.6	80.1	81.6	80.1	81.6
70°	80.1	75.8	71.4	69.9	68.4	68.4	68.4	67.0	68.4	67.0
71°	69.9	65.5	61.1	58.3	56.9	56.9	55.3	56.9	55.3	56.9
72°	59.7	55.3	49.5	46.6	46.6	46.6	46.6	45.2	46.6	45.2
72.5°	55.3	49.5	45.2	42.2	40.8	40.8	40.8	40.8	39.4	40.8
73°	50.9	45.2	39.4	37.8	37.8	37.8	36.4	35.0	36.4	36.4

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P583975

CATALOG NUMBER: HCC8S20D010SL-HM80520827-81RWWH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	17.5	13.1	11.7	11.7	11.7	11.7	11.7	11.7	10.2	10.2
80°	7.3	5.8	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
82.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
87.5°	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

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



74°	94.7	94.7	91.7	87.3	80.1	72.8	67.0	61.1	53.9	46.6	43.7
75°	87.3	85.9	83.0	78.6	72.8	65.5	59.7	52.5	46.6	39.4	36.4

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

Scaled Data Report



Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



74°	42.2	35.0	32.0	29.1	29.1	29.1	27.7	27.7	27.7	29.1
75°	33.5	27.7	24.7	21.9	23.3	21.9	23.3	21.9	21.9	21.9

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

Scaled Data Report



(END OF REPORT)