

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: P581854

Luminaire Tested: **HCC6S20D010MB-HM60525827-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581854  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S20D010MB-HM60525827-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

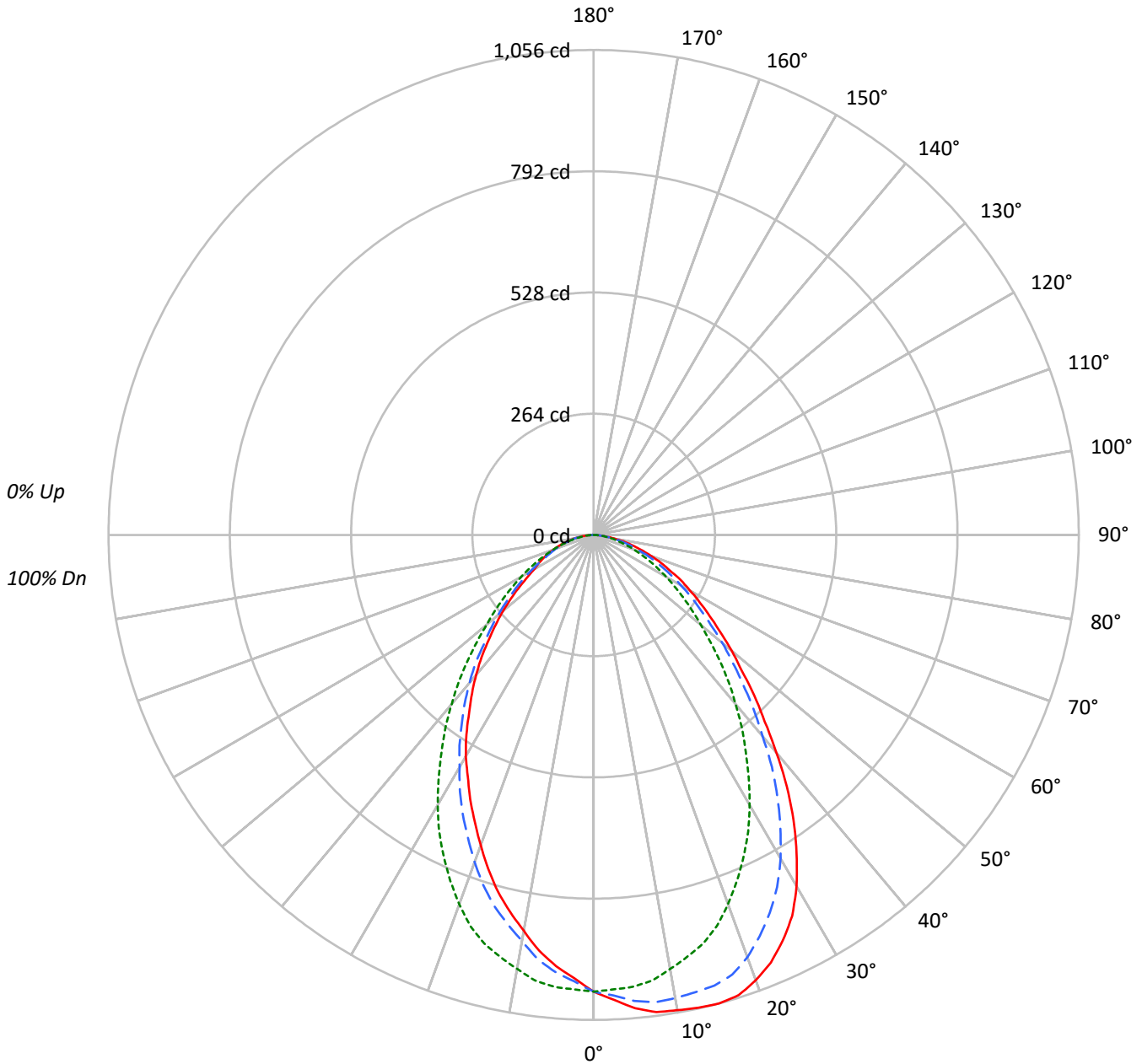
Lumens per Lamp: N/A  
Luminaire Lumens: 1852.5 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P581854  
CATALOG NUMBER: HCC6S20D010MB-HM60525827-61WWW

### Luminous Intensity Polar Plot





TEST NUMBER: P581854

CATALOG NUMBER: HCC6S20D010MB-HM60525827-61WWW

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	80	75	70	78	73	69	75	71	68	66								
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58								
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	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	42								
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°	54519	54519	54519
5°	56939	54353	51854
10°	58488	53423	48730
15°	59938	52265	45653
20°	60199	49897	41934
25°	58939	46714	38452
30°	55920	42962	35246
35°	50788	38608	31621
40°	44254	34386	28453
45°	38291	30096	25010
50°	33440	25918	21918
55°	29552	22776	18809
60°	26555	19966	16282
65°	23777	17356	15799
70°	21254	14794	14794
75°	18427	12476	13895
80°	14775	10544	12659
85°	10127	9246	10944



TEST NUMBER: P581854  
 CATALOG NUMBER: HCC6S20D010MB-HM60525827-61WWW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.5	5.0
10°-20°	259.8	14.0
20°-30°	362.1	19.5
30°-40°	373.1	20.1
40°-50°	309.2	16.7
50°-60°	222.2	12.0
60°-70°	141.5	7.6
70°-80°	72.7	3.9
80°-90°	18.5	1.0
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°	715.4	38.6
0°-40°	1088.5	58.8
0°-60°	1619.9	87.4
0°-90°	1852.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1852.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	994	994	994	994	994	
5°	1035	1019	988	956	942	99
15°	1056	1016	921	837	804	298
25°	974	908	772	673	636	446
35°	759	697	577	501	472	471
45°	494	459	388	339	323	382
55°	309	284	238	212	197	279
65°	183	163	134	116	122	184
75°	87	75	59	62	66	93
85°	16	15	15	16	17	21
90°	0	0	0	0	0	

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



TEST NUMBER: P581854

CATALOG NUMBER: HCC6S20D010MB-HM60525827-61WWW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	994.5	994.5	994.5	994.5	994.5	994.5	994.5	994.5	994.5
2.5°	1013.2	1009.2	1003.8	998.5	990.5	981.1	973.1	970.4	966.3
5°	1034.7	1029.3	1018.6	1005.2	987.7	970.4	955.7	946.3	942.3
7.5°	1048.0	1041.3	1026.6	1003.8	978.5	953.0	931.6	918.2	912.9
10°	1050.7	1044.1	1023.9	993.2	959.7	924.9	898.1	882.0	875.4
12.5°	1054.7	1045.3	1019.9	983.8	941.0	900.8	867.3	847.3	840.6
15°	1056.1	1045.3	1016.0	971.8	920.9	872.6	836.6	812.5	804.4
17.5°	1050.7	1038.6	1003.8	950.4	892.8	841.9	799.1	773.6	763.0
20°	1031.9	1018.6	978.5	918.2	855.3	801.7	757.6	730.8	718.8
22.5°	1007.9	990.5	944.9	880.7	815.2	758.9	714.7	688.0	675.9
25°	974.4	958.4	907.5	839.2	772.3	713.5	673.2	645.1	635.7
27.5°	935.6	916.8	864.7	796.4	728.2	669.3	630.4	605.0	592.9
30°	883.4	866.0	813.8	745.5	678.7	623.7	583.6	562.2	556.8
32.5°	821.9	807.1	756.3	692.0	627.8	576.9	543.4	520.7	515.3
35°	758.9	741.5	697.4	637.1	576.9	531.4	500.6	480.5	472.5
37.5°	690.7	674.6	637.1	583.6	530.0	487.2	460.5	443.0	435.0
40°	618.4	606.4	571.5	528.7	480.5	443.0	420.2	405.6	397.6
42.5°	551.4	539.4	515.3	475.2	435.0	401.5	381.5	368.1	361.4
45°	493.9	483.2	459.1	424.3	388.2	360.1	338.7	329.2	322.6
47.5°	436.3	431.0	409.6	377.4	344.0	319.8	305.2	294.5	289.1
50°	392.1	385.4	365.4	332.0	303.9	285.1	271.7	262.3	257.0
52.5°	346.7	340.0	321.2	293.1	270.3	253.0	239.6	231.6	226.3
55°	309.2	303.9	283.7	258.3	238.3	223.5	211.5	202.1	196.8
57.5°	274.4	269.1	250.3	226.3	208.8	195.4	184.7	176.6	170.0
60°	242.2	238.3	219.5	196.8	182.1	168.7	159.3	152.6	148.5
62.5°	214.1	206.1	190.1	170.0	156.6	145.9	136.5	132.6	135.2
65°	183.3	179.4	163.3	145.9	133.8	123.2	116.5	119.1	121.8
67.5°	157.9	152.6	139.2	123.2	112.4	104.3	100.4	105.7	107.1
70°	132.6	127.1	115.1	101.7	92.3	87.0	87.0	91.0	92.3
72.5°	108.4	104.3	93.7	82.9	76.3	72.3	75.0	77.6	79.0
75°	87.0	82.9	75.0	65.6	58.9	58.9	61.5	64.2	65.6
77.5°	67.0	64.2	56.2	49.5	46.8	46.8	49.5	50.9	52.2
80°	46.8	44.2	40.1	36.1	33.4	36.1	38.9	38.9	40.1
82.5°	30.8	29.5	26.7	24.1	24.1	25.4	26.7	28.1	28.1
85°	16.1	16.1	14.7	13.4	14.7	16.1	16.1	17.4	17.4
87.5°	5.3	5.3	5.3	5.3	6.7	6.7	6.7	6.7	6.7
90°	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



(END OF REPORT)