

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: P581890

Luminaire Tested: **HCC6S20D010MB-HM60525835-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581890  
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-HM60525835-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

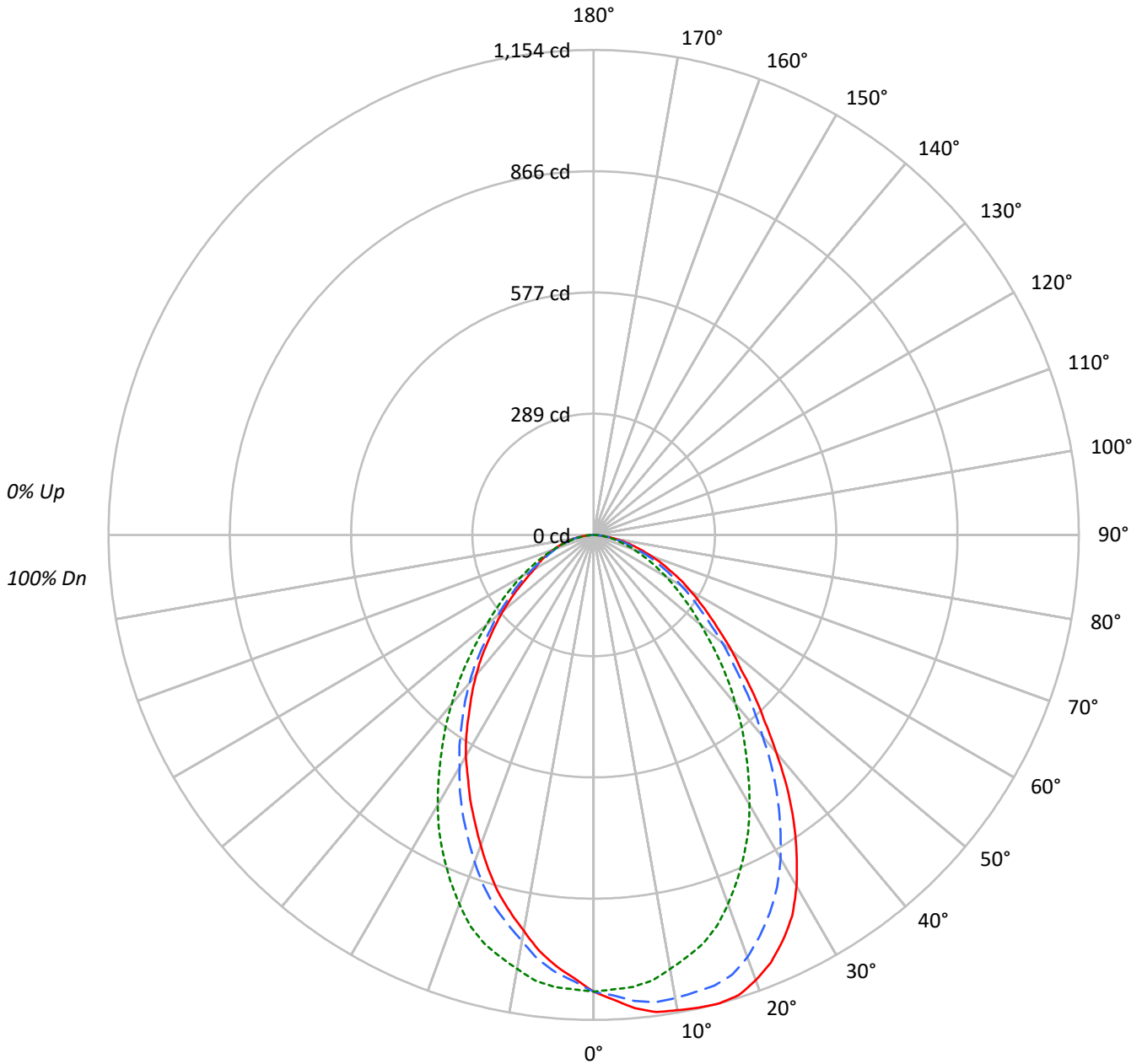
Lumens per Lamp: N/A  
Luminaire Lumens: 2024.4 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P581890  
CATALOG NUMBER: HCC6S20D010MB-HM60525835-61WWW

### Luminous Intensity Polar Plot



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



TEST NUMBER: P581890

CATALOG NUMBER: HCC6S20D010MB-HM60525835-61WWW

**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	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°	59579	59579	59579
5°	62216	59399	56664
10°	63916	58377	53250
15°	65500	57112	49892
20°	65788	54523	45819
25°	64407	51051	42027
30°	61104	46938	38512
35°	55506	42188	34552
40°	48355	37578	31087
45°	41849	32887	27328
50°	36553	28315	23957
55°	32295	24888	20549
60°	29033	21818	17806
65°	25995	18977	17265
70°	23209	16189	16189
75°	20143	13640	15187
80°	16164	11555	13828
85°	11070	10127	11951



TEST NUMBER: P581890  
 CATALOG NUMBER: HCC6S20D010MB-HM60525835-61WWW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.1	5.0
10°-20°	283.9	14.0
20°-30°	395.7	19.5
30°-40°	407.7	20.1
40°-50°	337.9	16.7
50°-60°	242.8	12.0
60°-70°	154.6	7.6
70°-80°	79.4	3.9
80°-90°	20.2	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°	781.7	38.6
0°-40°	1189.4	58.8
0°-60°	1770.1	87.4
0°-90°	2024.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2024.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1087	1087	1087	1087	1087	
5°	1131	1113	1079	1044	1030	108
15°	1154	1110	1006	914	879	325
25°	1065	992	844	736	695	488
35°	829	762	630	547	516	515
45°	540	502	424	370	352	418
55°	338	310	260	231	215	304
65°	200	178	146	127	133	201
75°	95	82	64	67	72	101
85°	18	16	16	18	19	23
90°	0	0	0	0	0	

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



TEST NUMBER: P581890

CATALOG NUMBER: HCC6S20D010MB-HM60525835-61WWW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8
2.5°	1107.3	1102.9	1097.0	1091.2	1082.4	1072.2	1063.3	1060.4	1056.1
5°	1130.6	1124.7	1113.1	1098.4	1079.4	1060.4	1044.3	1034.1	1029.7
7.5°	1145.2	1138.0	1121.9	1097.0	1069.2	1041.5	1018.0	1003.4	997.5
10°	1148.2	1140.8	1119.0	1085.3	1048.7	1010.7	981.4	963.8	956.6
12.5°	1152.6	1142.3	1114.5	1075.1	1028.2	984.4	947.8	925.9	918.5
15°	1154.1	1142.3	1110.1	1061.8	1006.3	953.6	914.2	887.8	879.1
17.5°	1148.2	1135.0	1097.0	1038.5	975.6	920.0	873.2	845.4	833.7
20°	1127.7	1113.1	1069.2	1003.4	934.6	876.1	827.9	798.7	785.4
22.5°	1101.4	1082.4	1032.6	962.5	890.8	829.4	781.1	751.9	738.6
25°	1064.8	1047.2	991.7	917.1	844.0	779.6	735.8	705.0	694.8
27.5°	1022.4	1001.9	944.9	870.3	795.7	731.4	688.9	661.1	648.0
30°	965.3	946.4	889.3	814.7	741.5	681.6	637.8	614.3	608.4
32.5°	898.0	881.9	826.4	756.2	686.0	630.4	593.8	569.0	563.1
35°	829.4	810.3	762.1	696.2	630.4	580.7	547.0	525.1	516.3
37.5°	754.7	737.1	696.2	637.8	579.2	532.4	503.2	484.1	475.4
40°	675.7	662.6	624.5	577.7	525.1	484.1	459.3	443.2	434.4
42.5°	602.6	589.5	563.1	519.3	475.4	438.8	416.8	402.2	395.0
45°	539.8	528.0	501.7	463.6	424.2	393.5	370.0	359.8	352.5
47.5°	476.9	471.0	447.5	412.5	375.9	349.5	333.4	321.8	315.9
50°	428.6	421.2	399.3	362.8	332.0	311.6	297.0	286.6	280.9
52.5°	378.9	371.5	351.0	320.3	295.5	276.5	261.8	253.0	247.2
55°	337.9	332.0	310.1	282.3	260.4	244.3	231.1	220.8	215.0
57.5°	299.8	294.0	273.5	247.2	228.2	213.6	201.9	193.1	185.8
60°	264.8	260.4	239.9	215.0	199.0	184.3	174.0	166.8	162.4
62.5°	234.1	225.2	207.7	185.8	171.1	159.4	149.2	144.8	147.7
65°	200.4	196.0	178.4	159.4	146.3	134.6	127.2	130.2	133.1
67.5°	172.6	166.8	152.2	134.6	122.8	114.1	109.7	115.6	117.0
70°	144.8	138.9	125.8	111.1	101.0	95.1	95.1	99.5	101.0
72.5°	118.5	114.1	102.4	90.6	83.4	79.0	81.9	84.9	86.3
75°	95.1	90.6	81.9	71.7	64.4	64.4	67.3	70.2	71.7
77.5°	73.1	70.2	61.4	54.2	51.2	51.2	54.2	55.6	57.0
80°	51.2	48.3	43.8	39.5	36.6	39.5	42.4	42.4	43.8
82.5°	33.7	32.2	29.2	26.3	26.3	27.8	29.2	30.7	30.7
85°	17.6	17.6	16.1	14.6	16.1	17.6	17.6	19.0	19.0
87.5°	5.9	5.9	5.9	5.9	7.4	7.4	7.4	7.4	7.4
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)