

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: P593141

Luminaire Tested: **HCC6S20D010MB-HM60525850-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593141  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S20D010MB-HM60525850-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

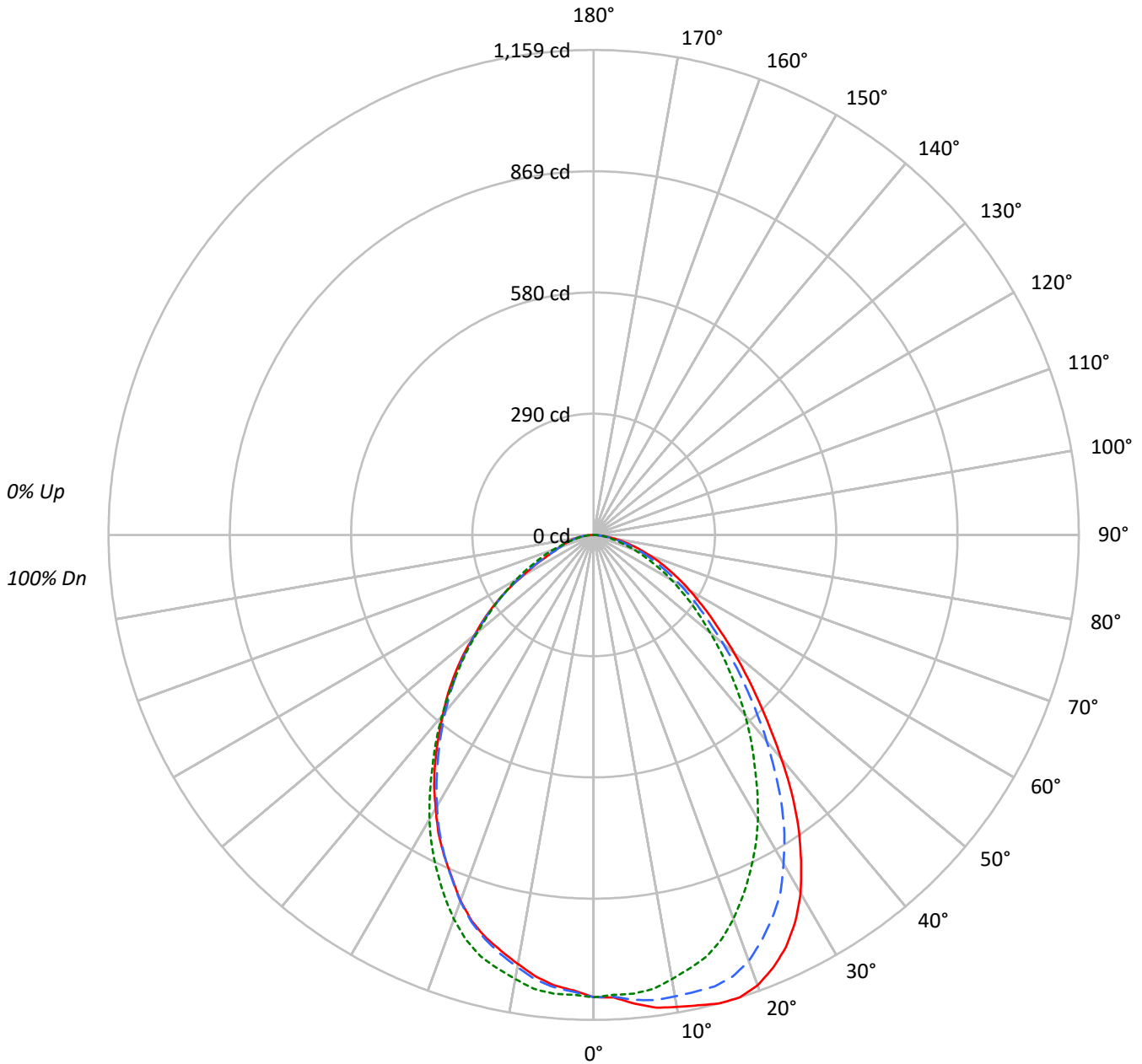
Lumens per Lamp: N/A  
Luminaire Lumens: 2163.6 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P593141  
CATALOG NUMBER: HCC6S20D010MB-HM60525850-61WWWB

### Luminous Intensity Polar Plot



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



TEST NUMBER: P593141

CATALOG NUMBER: HCC6S20D010MB-HM60525850-61WWWB

**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	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76								
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66								
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58								
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52								
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	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	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	60565	60565	60565
5°	61875	60549	59470
10°	63771	59986	57965
15°	65784	59189	56533
20°	66832	56967	54237
25°	65732	53586	51124
30°	62573	49679	47767
35°	57065	44845	44136
40°	49893	40290	40068
45°	42942	35453	36267
50°	37329	30890	31538
55°	32601	27115	27411
60°	28956	23507	21511
65°	25839	19769	16448
70°	22744	16205	13784
75°	19508	12793	13111
80°	15753	10955	12880
85°	10504	9498	11385



TEST NUMBER: P593141  
 CATALOG NUMBER: HCC6S20D010MB-HM60525850-61WWWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.6	4.8
10°-20°	297.8	13.8
20°-30°	425.1	19.6
30°-40°	445.3	20.6
40°-50°	374.9	17.3
50°-60°	266.8	12.3
60°-70°	156.2	7.2
70°-80°	73.9	3.4
80°-90°	19.0	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°	827.5	38.2
0°-40°	1272.7	58.8
0°-60°	1914.5	88.5
0°-90°	2163.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2163.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1105	1105	1105	1105	1105	
5°	1124	1115	1100	1085	1081	108
15°	1159	1117	1043	1001	996	327
25°	1087	1010	886	844	845	497
35°	853	782	670	648	660	530
45°	554	513	457	459	468	430
55°	341	312	284	284	287	307
65°	199	177	152	128	127	199
75°	92	77	60	59	62	99
85°	17	14	15	18	18	22
90°	0	0	0	0	0	

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



TEST NUMBER: P593141

CATALOG NUMBER: HCC6S20D010MB-HM60525850-61WWWB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1104.8	1104.8	1104.8	1104.8	1104.8	1104.8	1104.8	1104.8	1104.8
2.5°	1106.3	1106.3	1104.8	1103.3	1100.3	1095.7	1092.7	1089.7	1089.7
5°	1124.4	1121.3	1115.3	1107.8	1100.3	1091.2	1085.2	1080.7	1080.7
7.5°	1139.5	1133.5	1121.3	1107.8	1094.3	1082.1	1071.6	1065.6	1064.0
10°	1145.6	1138.0	1119.9	1098.8	1077.6	1061.1	1048.9	1041.3	1041.3
12.5°	1151.6	1142.5	1118.4	1088.1	1061.1	1038.4	1026.3	1020.3	1018.8
15°	1159.1	1147.0	1116.8	1079.1	1042.9	1017.2	1000.7	996.1	996.1
17.5°	1159.1	1144.0	1106.3	1059.5	1014.3	985.6	970.4	965.9	967.5
20°	1145.6	1128.9	1083.6	1026.3	976.5	946.3	931.2	928.2	929.7
22.5°	1119.9	1100.3	1048.9	987.1	932.7	901.1	887.5	887.5	885.9
25°	1086.7	1065.6	1009.7	944.8	885.9	854.3	843.6	845.2	845.2
27.5°	1042.9	1021.7	965.9	896.5	837.6	805.9	798.4	801.4	803.0
30°	988.5	965.9	907.1	839.1	784.8	753.1	748.6	753.1	754.6
32.5°	922.1	905.6	848.2	778.8	727.5	700.3	698.8	703.4	709.4
35°	852.7	834.6	781.8	718.4	670.1	647.5	647.5	655.0	659.5
37.5°	777.2	759.1	710.8	658.0	617.3	596.2	599.1	606.7	608.2
40°	697.2	683.7	643.0	597.7	563.0	546.3	550.9	558.5	559.9
42.5°	621.8	609.8	576.6	535.8	510.1	498.1	504.1	513.1	516.2
45°	553.9	540.3	513.1	478.5	457.3	451.3	458.9	464.9	467.8
47.5°	492.1	479.9	457.3	425.6	410.5	407.5	415.0	418.1	421.1
50°	437.7	425.6	403.0	374.3	362.2	362.2	368.2	371.3	369.8
52.5°	384.9	374.3	353.2	329.0	321.4	321.4	326.0	327.6	330.5
55°	341.1	330.5	312.4	289.8	283.7	280.8	283.7	283.7	286.8
57.5°	300.4	291.3	274.6	253.6	246.0	243.0	241.4	240.0	243.0
60°	264.1	256.6	238.5	220.4	214.4	206.8	200.8	194.6	196.2
62.5°	230.9	223.3	206.8	188.6	182.6	172.1	164.5	156.9	160.0
65°	199.2	191.7	176.6	161.5	152.4	140.4	128.3	123.7	126.8
67.5°	170.5	164.5	149.4	134.4	126.8	113.2	101.1	101.1	102.6
70°	141.9	135.8	123.7	110.1	101.1	89.1	84.5	86.0	86.0
72.5°	116.2	111.7	99.6	87.6	78.5	70.9	70.9	72.4	74.0
75°	92.1	89.1	76.9	66.4	60.4	55.9	58.9	60.4	61.9
77.5°	70.9	66.4	57.3	49.9	45.3	46.8	49.9	51.3	52.8
80°	49.9	48.3	40.8	36.3	34.7	36.3	39.2	40.8	40.8
82.5°	31.7	30.1	25.6	24.1	24.1	25.6	28.7	28.7	28.7
85°	16.7	15.1	13.6	13.6	15.1	16.7	18.1	18.1	18.1
87.5°	6.0	4.5	6.0	6.0	7.6	7.6	7.6	7.6	7.6
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)