

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: P581872

Luminaire Tested: **HCC6S20D010MB-HM60525830-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581872  
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-HM60525830-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

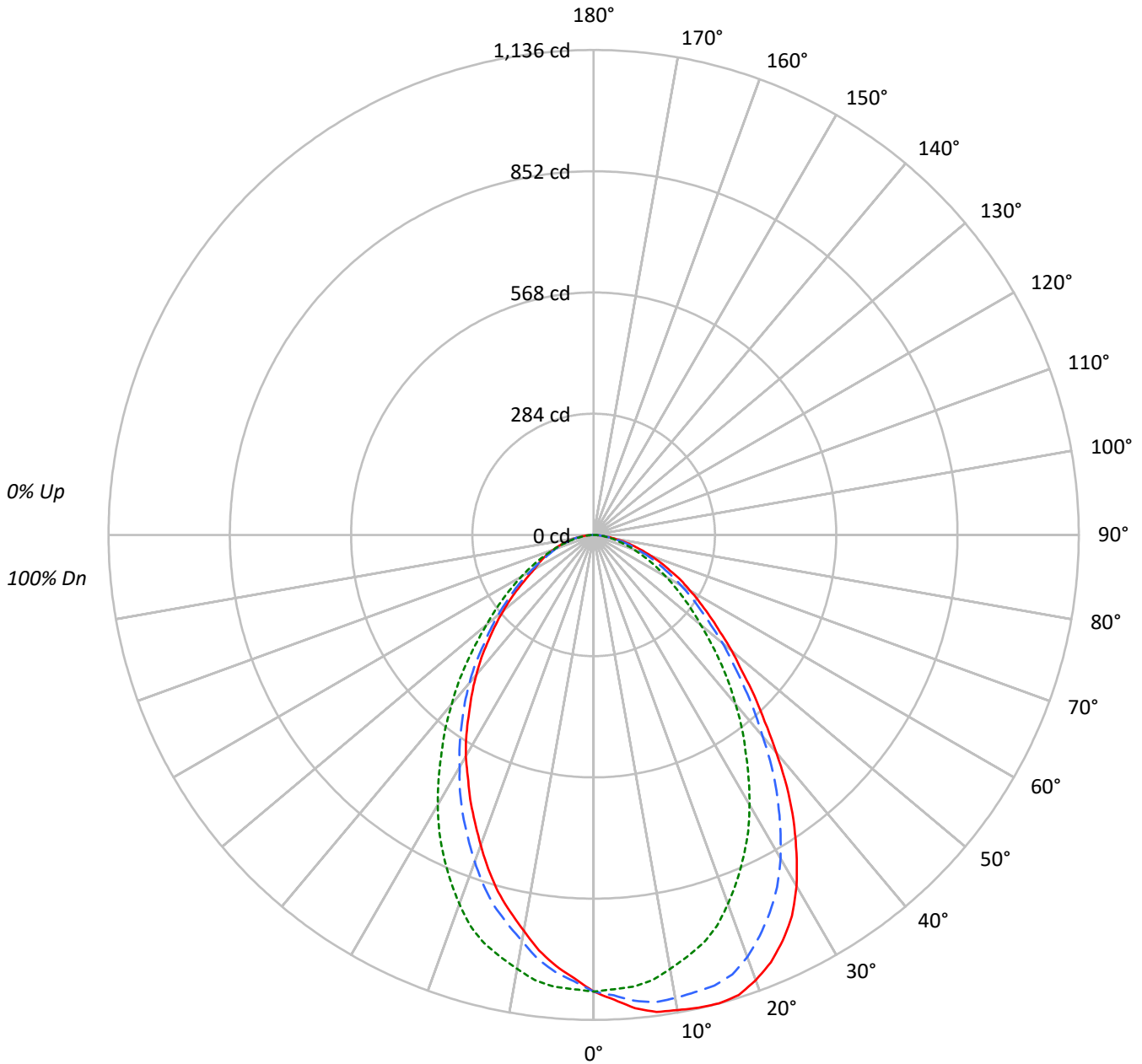
Lumens per Lamp: N/A  
Luminaire Lumens: 1992.4 lumens  
Efficiency: N/A  
Efficacy: 99.6 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P581872  
CATALOG NUMBER: HCC6S20D010MB-HM60525830-61WWW

### Luminous Intensity Polar Plot





TEST NUMBER: P581872

CATALOG NUMBER: HCC6S20D010MB-HM60525830-61WWW

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

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	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°	58636	58636	58636
5°	61231	58463	55772
10°	62908	57458	52404
15°	64461	56209	49104
20°	64750	53665	45096
25°	63391	50241	41361
30°	60142	46203	37911
35°	54623	41519	34010
40°	47596	36984	30600
45°	41183	32368	26894
50°	35973	27871	23564
55°	31779	24496	20224
60°	28572	21468	17521
65°	25593	18679	16993
70°	22840	15932	15932
75°	19825	13408	14954
80°	15911	11365	13638
85°	10819	10001	11762



TEST NUMBER: P581872

CATALOG NUMBER: HCC6S20D010MB-HM60525830-61WWW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.5	5.0
10°-20°	279.4	14.0
20°-30°	389.4	19.5
30°-40°	401.2	20.1
40°-50°	332.5	16.7
50°-60°	239.0	12.0
60°-70°	152.2	7.6
70°-80°	78.2	3.9
80°-90°	19.9	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°	769.4	38.6
0°-40°	1170.6	58.8
0°-60°	1742.2	87.4
0°-90°	1992.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1992.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1070	1070	1070	1070	1070	
5°	1113	1096	1062	1028	1014	107
15°	1136	1093	990	900	865	320
25°	1048	976	831	724	684	480
35°	816	750	620	538	508	507
45°	531	494	418	364	347	411
55°	332	305	256	227	212	300
65°	197	176	144	125	131	198
75°	94	81	63	66	71	100
85°	17	16	16	17	19	22
90°	0	0	0	0	0	

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



TEST NUMBER: P581872

CATALOG NUMBER: HCC6S20D010MB-HM60525830-61WWW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1069.6	1069.6	1069.6	1069.6	1069.6	1069.6	1069.6	1069.6	1069.6
2.5°	1089.7	1085.4	1079.6	1073.9	1065.2	1055.2	1046.6	1043.7	1039.3
5°	1112.7	1107.1	1095.5	1081.1	1062.4	1043.7	1027.9	1017.8	1013.5
7.5°	1127.1	1120.0	1104.1	1079.6	1052.3	1024.9	1001.9	987.5	981.7
10°	1130.1	1122.8	1101.3	1068.2	1032.2	994.8	965.9	948.7	941.4
12.5°	1134.4	1124.3	1097.0	1058.1	1012.0	968.8	932.8	911.3	904.0
15°	1135.8	1124.3	1092.6	1045.1	990.4	938.6	899.7	873.8	865.2
17.5°	1130.1	1117.0	1079.6	1022.1	960.2	905.5	859.4	832.1	820.5
20°	1109.9	1095.5	1052.3	987.5	919.9	862.3	814.7	786.0	773.0
22.5°	1083.9	1065.2	1016.3	947.2	876.7	816.2	768.7	740.0	726.9
25°	1048.0	1030.7	976.0	902.5	830.6	767.3	724.1	693.8	683.8
27.5°	1006.2	986.0	930.0	856.5	783.1	719.8	678.0	650.7	637.8
30°	950.1	931.3	875.2	801.8	729.9	670.8	627.7	604.6	598.9
32.5°	883.9	868.0	813.4	744.3	675.2	620.4	584.4	559.9	554.3
35°	816.2	797.5	750.0	685.2	620.4	571.5	538.4	516.8	508.2
37.5°	742.8	725.6	685.2	627.7	570.0	524.0	495.2	476.5	467.8
40°	665.1	652.2	614.7	568.7	516.8	476.5	452.1	436.2	427.6
42.5°	593.1	580.1	554.3	511.0	467.8	431.9	410.3	395.9	388.6
45°	531.2	519.7	493.8	456.4	417.5	387.3	364.1	354.2	346.9
47.5°	469.3	463.5	440.5	406.0	369.9	344.1	328.2	316.7	310.9
50°	421.8	414.6	393.0	357.0	326.8	306.6	292.2	282.1	276.3
52.5°	372.9	365.6	345.5	315.3	290.8	272.0	257.6	249.0	243.3
55°	332.5	326.8	305.2	277.8	256.3	240.4	227.4	217.4	211.6
57.5°	295.1	289.4	269.2	243.3	224.6	210.2	198.6	190.0	182.9
60°	260.6	256.3	236.1	211.6	195.8	181.4	171.3	164.1	159.8
62.5°	230.3	221.7	204.4	182.9	168.5	156.9	146.8	142.5	145.4
65°	197.3	192.9	175.6	156.9	144.0	132.4	125.2	128.1	131.0
67.5°	169.8	164.1	149.7	132.4	120.9	112.3	108.0	113.8	115.1
70°	142.5	136.8	123.8	109.4	99.4	93.6	93.6	97.9	99.4
72.5°	116.6	112.3	100.7	89.3	82.0	77.7	80.7	83.5	85.0
75°	93.6	89.3	80.7	70.6	63.3	63.3	66.2	69.1	70.6
77.5°	71.9	69.1	60.5	53.3	50.4	50.4	53.3	54.7	56.2
80°	50.4	47.5	43.2	38.9	36.0	38.9	41.7	41.7	43.2
82.5°	33.1	31.7	28.8	25.9	25.9	27.3	28.8	30.3	30.3
85°	17.2	17.2	15.9	14.4	15.9	17.2	17.2	18.7	18.7
87.5°	5.8	5.8	5.8	5.8	7.3	7.3	7.3	7.3	7.3
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)