

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: P581907

Luminaire Tested: **HCC6W20D010MB-HM60525840-61WWBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581907  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W20D010MB-HM60525840-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

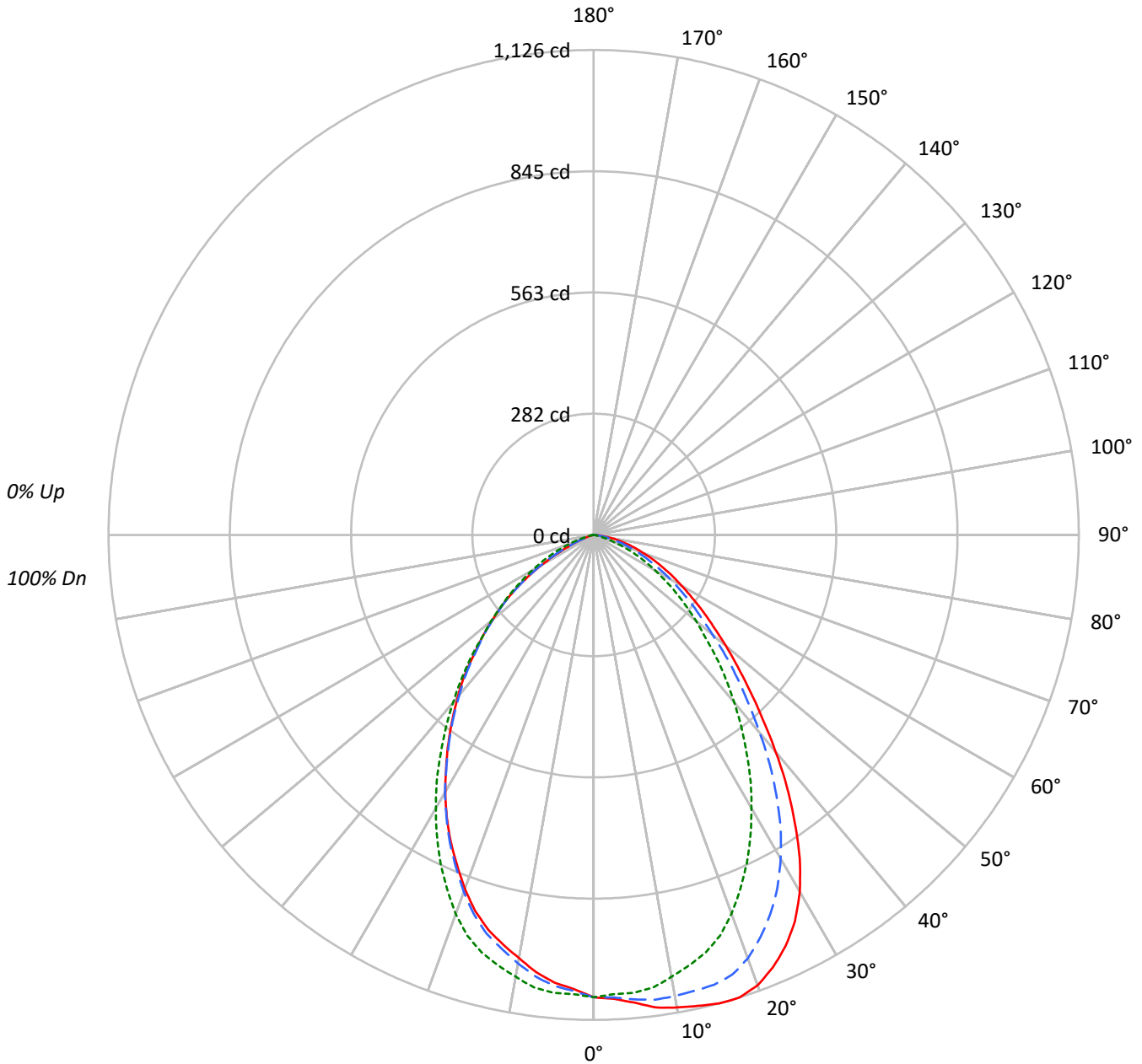
Lumens per Lamp: N/A  
Luminaire Lumens: 1912.9 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (Ain): 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: P581907  
CATALOG NUMBER: HCC6W20D010MB-HM60525840-61WWBB

### Luminous Intensity Polar Plot



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



TEST NUMBER: P581907

CATALOG NUMBER: HCC6W20D010MB-HM60525840-61WWBB

**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	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89		
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78		
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69		
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61		
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54		
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49		
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44		
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40		
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37		
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34		

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

	0°	90°	180°
0°	58844	58844	58844
5°	59988	58739	57412
10°	62023	57993	55549
15°	63922	56981	53808
20°	64913	54611	50994
25°	63742	50864	47489
30°	60592	46355	43576
35°	54455	41425	39304
40°	47002	36297	35116
45°	39803	31251	30437
50°	34123	26396	26140
55°	29581	22221	21352
60°	25831	18036	15229
65°	22726	13906	8419
70°	19603	9184	4119
75°	16627	4490	1610
80°	12880	1894	979
85°	7611	943	943



TEST NUMBER: P581907

CATALOG NUMBER: HCC6W20D010MB-HM60525840-61WWBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.3	5.3
10°-20°	286.5	15.0
20°-30°	403.4	21.1
30°-40°	412.2	21.5
40°-50°	332.3	17.4
50°-60°	222.9	11.7
60°-70°	112.8	5.9
70°-80°	36.1	1.9
80°-90°	5.6	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°	791.2	41.4
0°-40°	1203.3	62.9
0°-60°	1758.5	91.9
0°-90°	1912.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1912.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1073	1073	1073	1073	1073	
5°	1090	1082	1067	1051	1043	105
15°	1126	1081	1004	959	948	318
25°	1054	971	841	790	785	482
35°	814	740	619	584	587	506
45°	513	473	403	390	393	399
55°	310	275	232	222	223	278
65°	175	145	107	71	65	175
75°	78	56	21	8	8	84
85°	12	6	2	2	2	16
90°	0	0	0	0	0	

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



TEST NUMBER: P581907

CATALOG NUMBER: HCC6W20D010MB-HM60525840-61WWBB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4
2.5°	1077.9	1076.5	1075.0	1071.9	1067.4	1062.9	1059.8	1056.9	1055.3
5°	1090.1	1087.0	1082.5	1076.5	1067.4	1056.9	1050.9	1044.7	1043.3
7.5°	1106.7	1100.6	1088.6	1075.0	1059.8	1044.7	1034.2	1028.2	1023.7
10°	1114.2	1103.7	1087.0	1064.3	1041.8	1023.7	1010.1	1001.0	997.9
12.5°	1120.2	1108.2	1084.1	1053.8	1023.7	999.4	984.4	976.9	973.8
15°	1126.3	1114.2	1081.0	1041.8	1004.0	975.3	958.7	951.2	948.1
17.5°	1126.3	1109.7	1070.5	1020.6	975.3	940.6	924.0	916.5	914.9
20°	1112.7	1094.6	1046.3	987.4	936.1	896.8	881.7	877.2	874.1
22.5°	1087.0	1065.9	1011.5	945.1	889.3	851.6	834.9	831.8	828.9
25°	1053.8	1032.7	970.8	899.8	840.9	803.2	789.6	786.6	785.1
27.5°	1011.5	988.9	924.0	851.6	788.1	751.9	739.7	739.7	738.3
30°	957.2	931.6	868.1	795.7	732.3	699.1	690.0	690.0	688.4
32.5°	890.8	865.0	807.7	738.3	677.9	643.2	635.6	638.7	637.1
35°	813.7	792.6	739.7	671.9	619.0	587.3	584.3	587.3	587.3
37.5°	736.8	717.2	671.9	613.0	563.1	534.4	534.4	539.0	537.5
40°	656.8	641.6	599.4	548.0	507.2	487.6	484.6	489.1	490.7
42.5°	581.2	569.2	533.0	490.7	454.4	434.8	439.4	442.3	443.9
45°	513.4	501.2	472.6	428.7	403.1	389.5	389.5	394.1	392.6
47.5°	453.0	443.9	415.2	372.9	350.3	344.2	347.3	350.3	350.3
50°	400.1	386.5	359.3	326.1	309.5	301.9	305.0	306.5	306.5
52.5°	350.3	341.3	314.1	283.8	268.7	264.2	264.2	265.7	265.7
55°	309.5	298.9	274.8	244.6	232.5	226.5	222.0	220.5	223.4
57.5°	270.2	261.2	238.5	209.8	196.2	190.2	181.2	178.1	181.2
60°	235.6	228.0	205.3	178.1	164.5	152.5	142.0	135.8	138.9
62.5°	205.3	196.2	173.6	151.0	135.8	122.3	105.7	96.6	101.2
65°	175.2	167.6	144.9	122.3	107.2	90.6	70.9	64.9	64.9
67.5°	148.0	140.4	119.3	99.6	81.6	61.9	43.7	42.3	43.7
70°	122.3	114.8	96.6	77.0	57.3	37.7	25.7	25.7	25.7
72.5°	101.2	92.1	75.5	55.9	36.3	19.6	13.6	15.1	15.1
75°	78.5	70.9	55.9	37.7	21.2	9.1	7.6	7.6	7.6
77.5°	58.9	52.8	39.2	24.1	10.5	3.1	3.1	3.1	3.1
80°	40.8	34.7	25.7	15.1	6.0	3.1	3.1	3.1	3.1
82.5°	24.1	21.2	15.1	7.6	3.1	1.5	1.5	1.5	1.5
85°	12.1	10.5	6.0	3.1	1.5	1.5	1.5	1.5	1.5
87.5°	3.1	3.1	1.5	1.5	0.0	1.5	1.5	0.0	0.0
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)