

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: P581891

Luminaire Tested: **HCC6S20D010MW-HM60525835-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581891  
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: HCC6S20D010MW-HM60525835-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

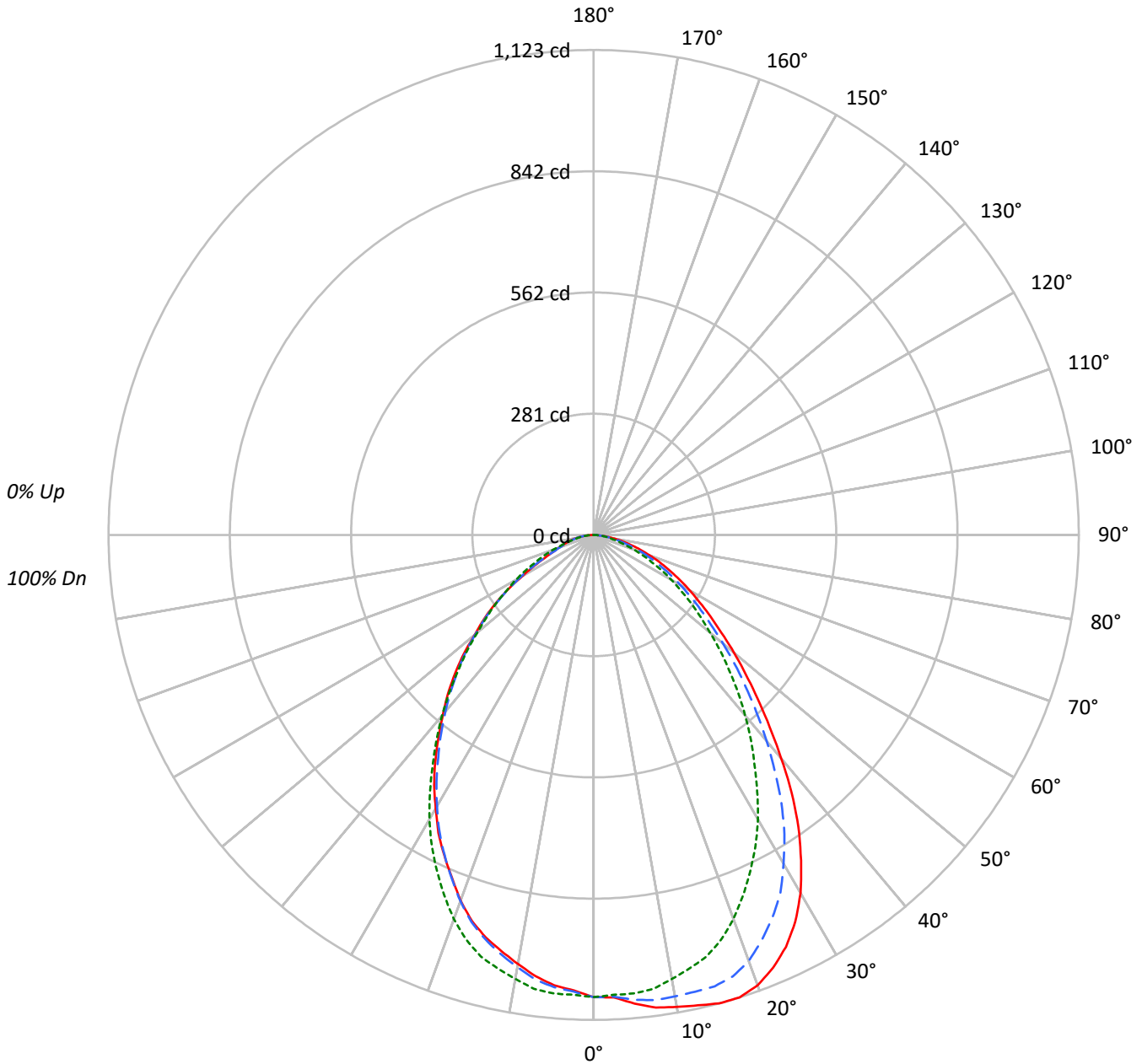
Lumens per Lamp: N/A  
Luminaire Lumens: 2096.1 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (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: P581891  
CATALOG NUMBER: HCC6S20D010MW-HM60525835-61WWWB

### Luminous Intensity Polar Plot



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



TEST NUMBER: P581891

CATALOG NUMBER: HCC6S20D010MW-HM60525835-61WWWB

**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				100				
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76				76				
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66				66				
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58				58				
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52				52				
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46				46				
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42				42				
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38				38				
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34				34				
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31				31				

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

	0°	90°	180°
0°	58674	58674	58674
5°	59944	58656	57610
10°	61778	58110	56161
15°	63729	57344	54773
20°	64744	55194	52545
25°	63681	51910	49527
30°	60623	48134	46279
35°	55292	43446	42764
40°	48341	39030	38823
45°	41601	34345	35143
50°	36169	29927	30558
55°	31588	26274	26551
60°	28046	22772	20843
65°	25048	19146	15929
70°	22023	15708	13368
75°	18893	12391	12687
80°	15248	10639	12438
85°	10127	9183	11070



TEST NUMBER: P581891  
 CATALOG NUMBER: HCC6S20D010MW-HM60525835-61WWWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.3	4.8
10°-20°	288.5	13.8
20°-30°	411.8	19.6
30°-40°	431.4	20.6
40°-50°	363.2	17.3
50°-60°	258.5	12.3
60°-70°	151.3	7.2
70°-80°	71.6	3.4
80°-90°	18.4	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°	801.7	38.2
0°-40°	1233.0	58.8
0°-60°	1854.7	88.5
0°-90°	2096.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2096.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1070	1070	1070	1070	1070	
5°	1089	1080	1066	1051	1047	105
15°	1123	1082	1010	969	965	317
25°	1053	978	858	817	819	482
35°	826	757	649	627	639	513
45°	537	497	443	444	453	417
55°	330	303	275	275	278	298
65°	193	171	148	124	123	192
75°	89	75	58	57	60	96
85°	16	13	15	18	18	21
90°	0	0	0	0	0	

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



TEST NUMBER: P581891

CATALOG NUMBER: HCC6S20D010MW-HM60525835-61WWWB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3
2.5°	1071.8	1071.8	1070.3	1068.9	1065.9	1061.5	1058.6	1055.7	1055.7
5°	1089.3	1086.4	1080.5	1073.3	1065.9	1057.2	1051.3	1046.9	1046.9
7.5°	1104.0	1098.1	1086.4	1073.3	1060.0	1048.4	1038.2	1032.3	1030.8
10°	1109.8	1102.5	1085.0	1064.5	1043.9	1027.9	1016.2	1008.9	1008.9
12.5°	1115.7	1106.8	1083.5	1054.3	1027.9	1006.0	994.3	988.4	987.0
15°	1122.9	1111.2	1082.0	1045.4	1010.4	985.5	969.4	965.1	965.1
17.5°	1122.9	1108.3	1071.8	1026.5	982.5	954.8	940.2	935.7	937.2
20°	1109.8	1093.7	1049.8	994.3	946.1	916.8	902.2	899.3	900.7
22.5°	1085.0	1065.9	1016.2	956.3	903.6	872.9	859.7	859.7	858.2
25°	1052.8	1032.3	978.2	915.4	858.2	827.5	817.3	818.8	818.8
27.5°	1010.4	989.9	935.7	868.6	811.5	780.8	773.5	776.4	777.9
30°	957.7	935.7	878.8	812.9	760.4	729.7	725.2	729.7	731.1
32.5°	893.4	877.3	821.8	754.5	704.7	678.4	677.0	681.4	687.2
35°	826.2	808.6	757.4	696.0	649.2	627.2	627.2	634.6	639.0
37.5°	753.0	735.4	688.6	637.5	598.0	577.6	580.4	587.8	589.3
40°	675.5	662.4	622.9	579.1	545.4	529.3	533.6	541.0	542.5
42.5°	602.4	590.7	558.6	519.0	494.2	482.5	488.3	497.2	500.1
45°	536.6	523.4	497.2	463.5	443.0	437.2	444.5	450.4	453.3
47.5°	476.7	465.0	443.0	412.3	397.7	394.7	402.1	405.0	408.0
50°	424.1	412.3	390.4	362.7	350.9	350.9	356.8	359.7	358.3
52.5°	372.9	362.7	342.2	318.7	311.5	311.5	315.9	317.2	320.2
55°	330.5	320.2	302.6	280.8	274.9	271.9	274.9	274.9	277.8
57.5°	291.0	282.2	266.1	245.6	238.4	235.4	234.0	232.5	235.4
60°	255.8	248.6	231.0	213.5	207.7	200.3	194.4	188.6	190.1
62.5°	223.8	216.4	200.3	182.8	177.0	166.7	159.4	152.0	155.0
65°	193.1	185.7	171.1	156.5	147.6	136.0	124.3	119.9	122.8
67.5°	165.2	159.4	144.8	130.2	122.8	109.7	98.0	98.0	99.5
70°	137.4	131.5	119.9	106.7	98.0	86.2	81.9	83.4	83.4
72.5°	112.6	108.2	96.5	84.9	76.0	68.8	68.8	70.1	71.6
75°	89.2	86.2	74.6	64.4	58.5	54.0	57.0	58.5	59.9
77.5°	68.8	64.4	55.5	48.3	43.8	45.3	48.3	49.7	51.2
80°	48.3	46.8	39.4	35.1	33.7	35.1	38.1	39.4	39.4
82.5°	30.7	29.2	24.8	23.3	23.3	24.8	27.8	27.8	27.8
85°	16.1	14.6	13.1	13.1	14.6	16.1	17.6	17.6	17.6
87.5°	5.9	4.4	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)