

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: P593159

Luminaire Tested: **HCC6W20D010MB-HM60525950-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593159  
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: HCC6W20D010MB-HM60525950-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

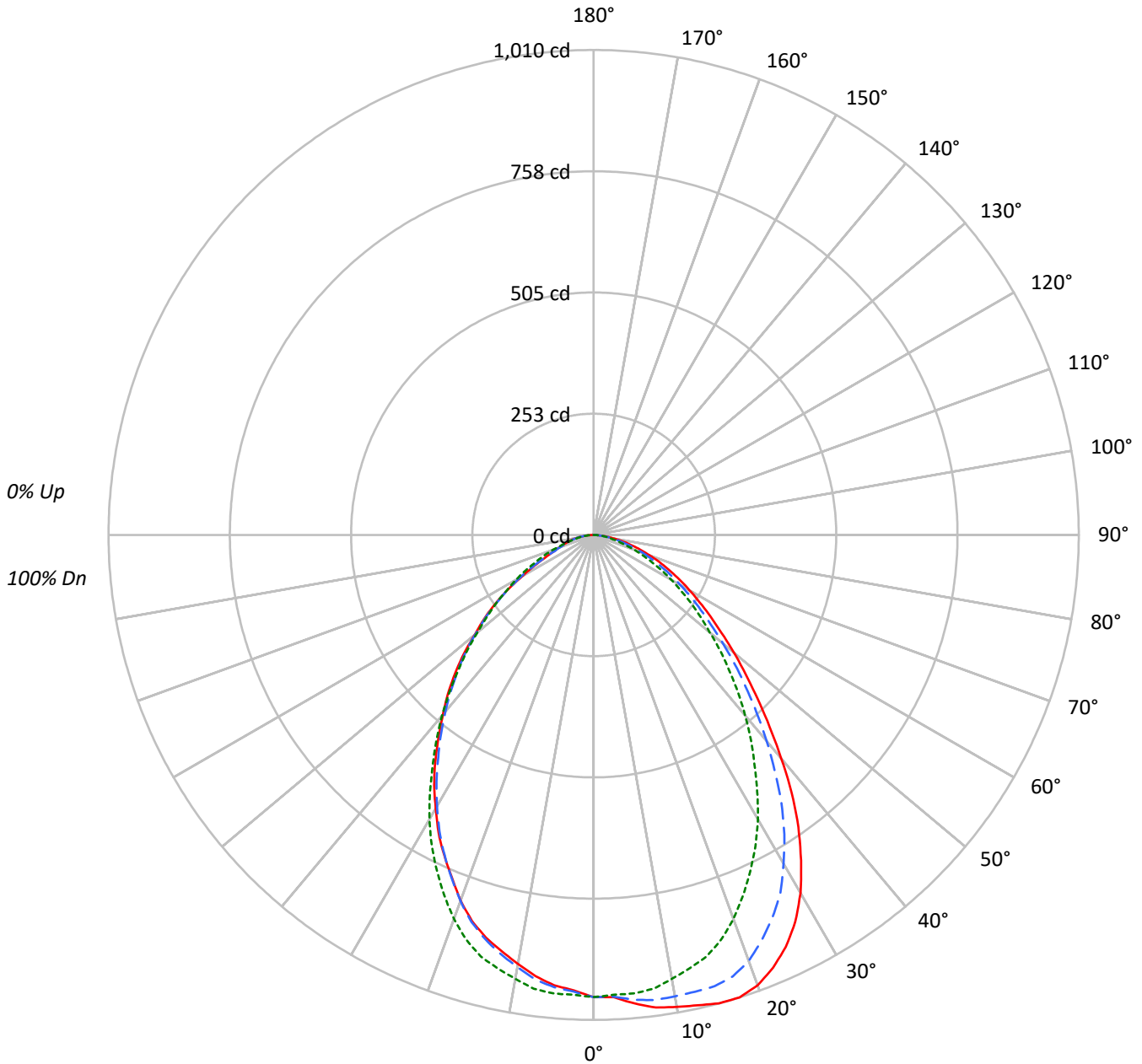
Lumens per Lamp: N/A  
Luminaire Lumens: 1885.0 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P593159  
CATALOG NUMBER: HCC6W20D010MB-HM60525950-61WWWB

### Luminous Intensity Polar Plot





TEST NUMBER: P593159

CATALOG NUMBER: HCC6W20D010MB-HM60525950-61WWWB

**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°	52764	52764	52764
5°	53907	52751	51810
10°	55560	52259	50506
15°	57310	51572	49257
20°	58228	49634	47254
25°	57263	46690	44537
30°	54521	43285	41620
35°	49717	39070	38461
40°	43474	35101	34915
45°	37407	30895	31608
50°	32528	26907	27470
55°	28405	23626	23875
60°	25228	20470	18748
65°	22519	17226	14334
70°	19811	14121	12021
75°	16987	11141	11416
80°	13701	9566	11207
85°	9120	8240	9875



TEST NUMBER: P593159  
 CATALOG NUMBER: HCC6W20D010MB-HM60525950-61WWWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.1	4.8
10°-20°	259.4	13.8
20°-30°	370.4	19.6
30°-40°	387.9	20.6
40°-50°	326.6	17.3
50°-60°	232.5	12.3
60°-70°	136.1	7.2
70°-80°	64.4	3.4
80°-90°	16.6	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°	720.9	38.2
0°-40°	1108.9	58.8
0°-60°	1668.0	88.5
0°-90°	1885.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1885.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	962	962	962	962	962	
5°	980	972	959	946	942	94
15°	1010	973	909	872	868	285
25°	947	880	772	735	736	433
35°	743	681	584	564	575	461
45°	482	447	398	400	408	375
55°	297	272	247	247	250	268
65°	174	154	133	112	110	173
75°	80	67	53	51	54	86
85°	14	12	13	16	16	19
90°	0	0	0	0	0	



TEST NUMBER: P593159

CATALOG NUMBER: HCC6W20D010MB-HM60525950-61WWWB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5
2.5°	963.8	963.8	962.5	961.2	958.6	954.7	952.1	949.3	949.3
5°	979.6	977.0	971.8	965.2	958.6	950.7	945.5	941.5	941.5
7.5°	992.7	987.5	977.0	965.2	953.3	942.8	933.6	928.4	927.0
10°	998.1	991.5	975.6	957.3	938.8	924.4	913.9	907.3	907.3
12.5°	1003.3	995.5	974.4	948.1	924.4	904.7	894.2	888.8	887.6
15°	1009.8	999.3	973.0	940.2	908.7	886.2	871.8	867.9	867.9
17.5°	1009.8	996.7	963.8	923.1	883.6	858.7	845.4	841.6	842.8
20°	998.1	983.6	944.1	894.2	850.8	824.5	811.3	808.7	810.0
22.5°	975.6	958.6	913.9	859.9	812.6	785.1	773.2	773.2	771.9
25°	946.7	928.4	879.7	823.1	771.9	744.3	735.1	736.3	736.3
27.5°	908.7	890.2	841.6	781.1	729.8	702.1	695.5	698.3	699.5
30°	861.3	841.6	790.3	731.1	683.8	656.1	652.2	656.1	657.5
32.5°	803.4	788.9	738.9	678.6	633.8	610.1	608.8	612.7	618.1
35°	742.9	727.2	681.2	625.9	583.8	564.1	564.1	570.7	574.7
37.5°	677.2	661.4	619.3	573.3	537.8	519.4	522.0	528.5	529.9
40°	607.5	595.6	560.2	520.7	490.5	476.0	479.9	486.5	487.9
42.5°	541.8	531.3	502.3	466.8	444.5	433.9	439.2	447.1	449.7
45°	482.5	470.8	447.1	416.8	398.5	393.2	399.7	405.0	407.7
47.5°	428.6	418.2	398.5	370.8	357.7	355.1	361.7	364.3	366.9
50°	381.4	370.8	351.1	326.1	315.5	315.5	320.9	323.5	322.1
52.5°	335.3	326.1	307.7	286.6	280.1	280.1	284.0	285.3	288.0
55°	297.2	288.0	272.1	252.4	247.2	244.6	247.2	247.2	249.8
57.5°	261.7	253.8	239.3	220.9	214.4	211.8	210.4	209.0	211.8
60°	230.1	223.5	207.8	191.9	186.7	180.1	174.9	169.6	171.0
62.5°	201.2	194.6	180.1	164.4	159.1	149.9	143.3	136.8	139.4
65°	173.6	167.0	153.9	140.7	132.8	122.3	111.7	107.9	110.5
67.5°	148.5	143.3	130.2	117.0	110.5	98.6	88.1	88.1	89.4
70°	123.6	118.4	107.9	96.0	88.1	77.6	73.6	75.0	75.0
72.5°	101.3	97.3	86.8	76.3	68.3	61.7	61.7	63.1	64.5
75°	80.2	77.6	67.1	57.9	52.6	48.6	51.3	52.6	53.9
77.5°	61.7	57.9	50.0	43.4	39.4	40.8	43.4	44.8	46.0
80°	43.4	42.0	35.5	31.6	30.3	31.6	34.2	35.5	35.5
82.5°	27.6	26.3	22.3	21.1	21.1	22.3	25.0	25.0	25.0
85°	14.5	13.1	11.8	11.8	13.1	14.5	15.7	15.7	15.7
87.5°	5.2	4.0	5.2	5.2	6.6	6.6	6.6	6.6	6.6
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)