

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: P582854

Luminaire Tested: **HCC6W05D010MB-HM60525827-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582854  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W05D010MB-HM60525827-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

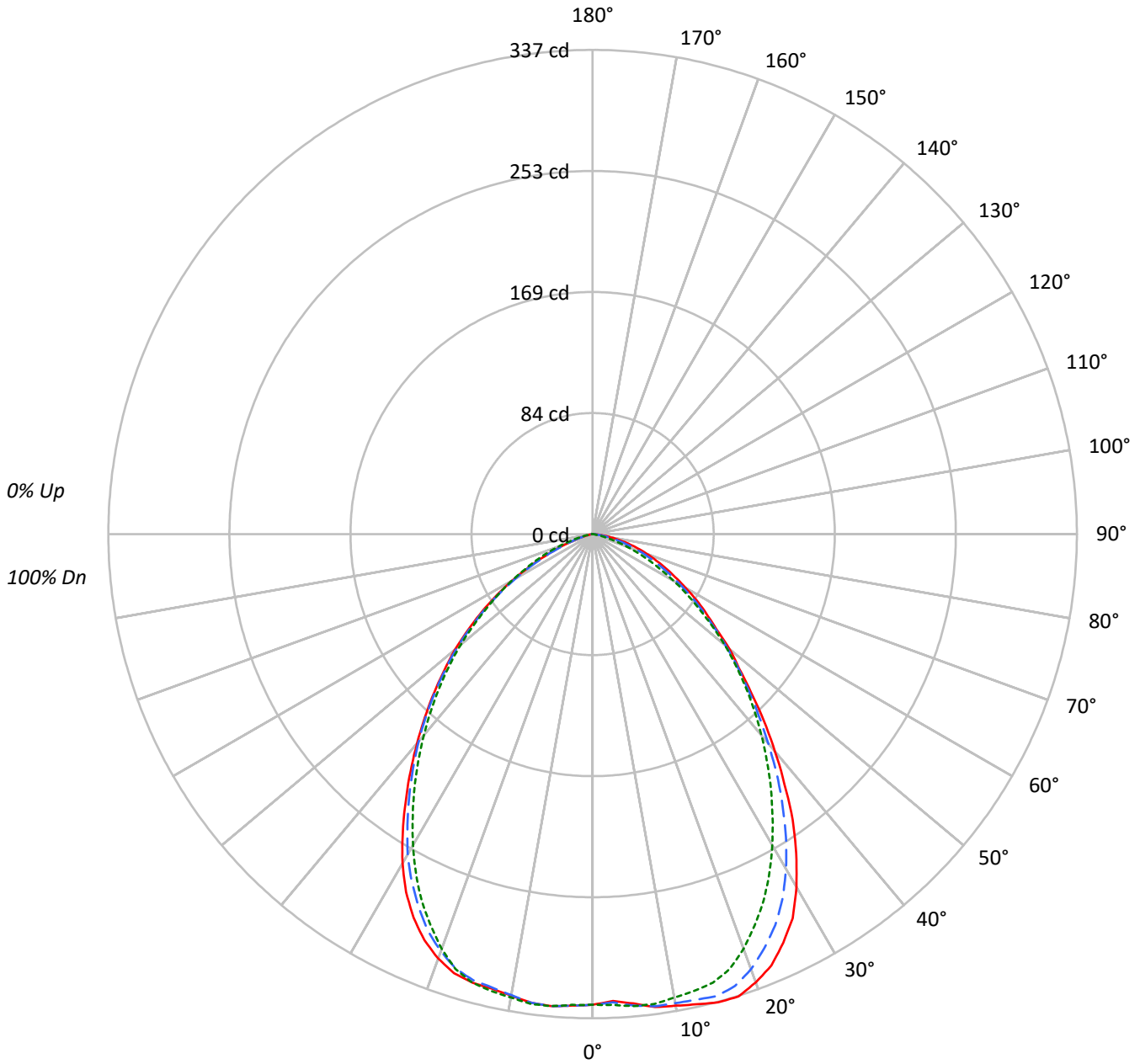
Lumens per Lamp: N/A  
Luminaire Lumens: 661.4 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 6  
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: P582854  
CATALOG NUMBER: HCC6W05D010MB-HM60525827-61RWWC

### Luminous Intensity Polar Plot



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



TEST NUMBER: P582854

CATALOG NUMBER: HCC6W05D010MB-HM60525827-61RWWC

**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	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88								
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77								
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68								
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	59								
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53								
6	76	64	56	50	74	63	56	50	62	55	50	60	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35								
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

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

	0°	90°	180°
0°	17959	17959	17959
5°	18050	18149	18149
10°	18553	18236	18158
15°	19149	18343	18343
20°	19368	17916	18336
25°	18981	17027	17826
30°	17952	15825	16743
35°	16249	14469	15178
40°	14134	13082	13597
45°	12079	11668	12079
50°	10601	10226	10644
55°	9242	8611	8955
60°	8179	7149	7061
65°	7251	5643	4838
70°	6411	3991	2917
75°	5465	2245	1419
80°	4072	726	442
85°	2201	314	314



TEST NUMBER: P582854  
 CATALOG NUMBER: HCC6W05D010MB-HM60525827-61RWWC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.4	4.8
10°-20°	91.9	13.9
20°-30°	134.3	20.3
30°-40°	140.8	21.3
40°-50°	118.6	17.9
50°-60°	83.1	12.6
60°-70°	44.6	6.7
70°-80°	15.0	2.3
80°-90°	1.7	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°	257.6	39.0
0°-40°	398.5	60.2
0°-60°	600.2	90.8
0°-90°	661.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	661.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	328	328	328	328	328	
5°	328	329	330	330	330	32
15°	337	333	323	321	323	95
25°	314	300	282	286	295	144
35°	243	230	216	222	227	151
45°	156	153	150	154	156	121
55°	97	94	90	92	94	87
65°	56	51	44	36	37	56
75°	26	20	11	7	7	27
85°	4	2	0	0	0	5
90°	0	0	0	0	0	

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



TEST NUMBER: P582854

CATALOG NUMBER: HCC6W05D010MB-HM60525827-61RWWC

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	327.6	327.6	327.6	327.6	327.6	327.6	327.6	327.6	327.6
2.5°	325.3	325.3	326.2	327.1	328.0	328.0	328.5	328.9	328.5
5°	328.0	328.0	329.4	329.8	329.8	329.4	329.8	329.8	329.8
7.5°	332.0	331.2	331.5	330.8	329.8	329.4	328.9	328.9	328.9
10°	333.3	332.4	331.5	329.8	327.6	326.2	325.8	326.2	326.2
12.5°	335.2	334.3	332.0	328.5	325.8	323.6	323.2	324.1	324.1
15°	337.4	336.5	332.9	327.1	323.2	320.9	321.4	322.3	323.2
17.5°	337.4	335.6	329.8	322.3	317.4	315.2	317.0	319.1	320.5
20°	332.0	330.3	322.3	312.9	307.1	305.9	308.9	312.9	314.3
22.5°	325.0	321.4	312.1	300.9	294.7	294.7	299.2	304.1	305.9
25°	313.8	311.2	300.5	287.7	281.5	281.0	286.3	293.0	294.7
27.5°	301.4	297.9	286.3	273.0	266.3	266.8	272.6	279.2	281.0
30°	283.6	279.2	269.1	256.2	250.0	251.7	257.4	262.4	264.5
32.5°	263.6	259.7	250.4	238.4	233.0	234.8	239.7	244.2	245.9
35°	242.8	238.4	230.4	219.8	216.2	218.0	222.4	226.0	226.8
37.5°	219.3	216.2	210.4	201.9	199.3	201.5	205.1	207.4	208.1
40°	197.5	194.9	190.0	183.7	182.8	184.6	188.3	189.5	190.0
42.5°	176.3	174.0	170.9	166.4	166.4	168.3	171.3	172.2	172.7
45°	155.8	154.5	153.1	149.6	150.5	152.7	154.5	155.8	155.8
47.5°	138.1	138.5	136.7	134.0	134.9	137.2	138.5	139.8	139.8
50°	124.3	122.9	121.1	118.5	119.9	121.6	123.4	124.3	124.8
52.5°	108.4	107.9	106.6	103.4	104.3	105.2	107.0	108.4	108.7
55°	96.7	95.5	93.7	90.1	90.1	91.0	91.9	92.8	93.7
57.5°	85.7	84.3	81.7	77.6	77.3	77.3	76.8	77.6	79.0
60°	74.6	74.1	70.2	66.6	65.2	64.0	62.1	62.6	64.4
62.5°	64.9	64.0	60.3	55.9	53.2	51.1	48.8	48.4	50.2
65°	55.9	55.0	51.1	46.6	43.5	39.6	35.9	35.9	37.3
67.5°	47.9	46.2	42.6	37.7	33.8	28.8	25.3	26.2	26.7
70°	40.0	38.6	34.6	29.7	24.9	20.0	17.7	18.2	18.2
72.5°	32.9	31.1	27.1	22.1	17.3	12.9	12.0	11.5	11.5
75°	25.8	24.0	20.0	15.1	10.6	7.6	6.7	6.7	6.7
77.5°	18.6	17.3	13.8	9.3	5.8	3.5	3.1	2.7	2.7
80°	12.9	11.5	8.5	4.9	2.3	1.4	1.4	1.4	1.4
82.5°	7.6	6.2	4.0	2.3	0.9	0.5	0.5	0.5	0.5
85°	3.5	2.7	1.8	0.9	0.5	0.5	0.5	0.5	0.5
87.5°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	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)