

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: P592997

Luminaire Tested: **HCC6W05D010BZ-HM60525850-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592997  
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: HCC6W05D010BZ-HM60525850-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

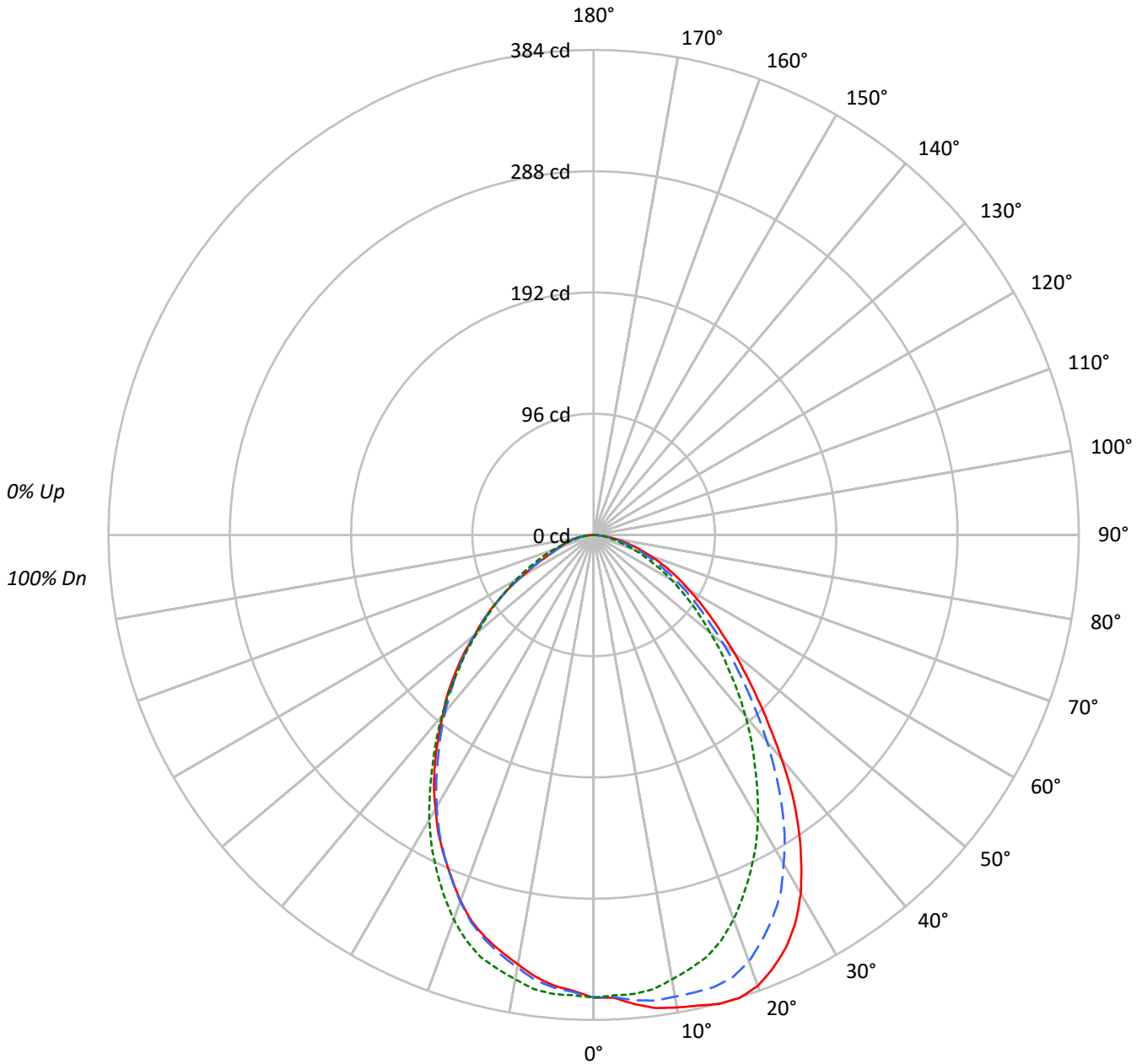
Lumens per Lamp: N/A  
Luminaire Lumens: 717.5 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 6  
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: P592997  
CATALOG NUMBER: HCC6W05D010BZ-HM60525850-61WWWB

### Luminous Intensity Polar Plot



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



TEST NUMBER: P592997

CATALOG NUMBER: HCC6W05D010BZ-HM60525850-61WWWB

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

RF	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	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°	20081	20081	20081
5°	20521	20080	19717
10°	21147	19889	19221
15°	21816	19631	18746
20°	22163	18896	17986
25°	21800	17771	16949
30°	20750	16471	15844
35°	18919	14877	14643
40°	16545	13361	13289
45°	14242	11753	12025
50°	12375	10243	10456
55°	10810	8994	9089
60°	9604	7795	7138
65°	8574	6551	5448
70°	7533	5386	4568
75°	6460	4236	4363
80°	5209	3631	4293
85°	3459	3145	3774



TEST NUMBER: P592997  
 CATALOG NUMBER: HCC6W05D010BZ-HM60525850-61WWWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.7	4.8
10°-20°	98.7	13.8
20°-30°	141.0	19.6
30°-40°	147.7	20.6
40°-50°	124.3	17.3
50°-60°	88.5	12.3
60°-70°	51.8	7.2
70°-80°	24.5	3.4
80°-90°	6.3	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°	274.4	38.2
0°-40°	422.1	58.8
0°-60°	634.9	88.5
0°-90°	717.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	717.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	366	366	366	366	366	
5°	373	370	365	360	358	36
15°	384	370	346	332	330	108
25°	360	335	294	280	280	165
35°	283	259	222	215	219	176
45°	184	170	152	152	155	143
55°	113	104	94	94	95	102
65°	66	58	50	42	42	66
75°	30	26	20	20	21	33
85°	6	4	5	6	6	7
90°	0	0	0	0	0	

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



TEST NUMBER: P592997

CATALOG NUMBER: HCC6W05D010BZ-HM60525850-61WWWB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	366.3	366.3	366.3	366.3	366.3	366.3	366.3	366.3	366.3
2.5°	366.9	366.9	366.3	365.9	364.9	363.4	362.4	361.4	361.4
5°	372.9	371.9	369.8	367.4	364.9	361.8	359.9	358.3	358.3
7.5°	377.9	375.8	371.9	367.4	362.8	358.9	355.4	353.4	352.9
10°	379.9	377.4	371.3	364.3	357.3	351.9	347.8	345.3	345.3
12.5°	381.8	378.9	370.9	360.8	351.9	344.3	340.4	338.3	337.9
15°	384.4	380.4	370.4	357.9	345.9	337.3	331.9	330.3	330.3
17.5°	384.4	379.3	366.9	351.3	336.3	326.8	321.8	320.4	320.8
20°	379.9	374.4	359.3	340.4	323.9	313.8	308.8	307.8	308.3
22.5°	371.3	364.9	347.8	327.4	309.3	298.8	294.3	294.3	293.8
25°	360.4	353.4	334.8	313.3	293.8	283.3	279.8	280.2	280.2
27.5°	345.9	338.9	320.4	297.3	277.8	267.2	264.8	265.8	266.2
30°	327.8	320.4	300.8	278.3	260.2	249.7	248.3	249.7	250.3
32.5°	305.8	300.4	281.3	258.2	241.3	232.2	231.8	233.2	235.3
35°	282.7	276.7	259.2	238.2	222.3	214.7	214.7	217.2	218.8
37.5°	257.8	251.8	235.7	218.2	204.8	197.7	198.7	201.3	201.7
40°	231.2	226.7	213.2	198.2	186.7	181.1	182.7	185.2	185.7
42.5°	206.2	202.2	191.2	177.6	169.2	165.2	167.1	170.2	171.2
45°	183.7	179.2	170.2	158.7	151.6	149.6	152.1	154.1	155.1
47.5°	163.2	159.1	151.6	141.1	136.2	135.1	137.6	138.7	139.7
50°	145.1	141.1	133.7	124.1	120.1	120.1	122.2	123.2	122.6
52.5°	127.6	124.1	117.1	109.2	106.6	106.6	108.1	108.6	109.6
55°	113.1	109.6	103.6	96.0	94.1	93.1	94.1	94.1	95.1
57.5°	99.6	96.6	91.1	84.1	81.6	80.6	80.1	79.6	80.6
60°	87.6	85.1	79.1	73.1	71.1	68.6	66.6	64.5	65.1
62.5°	76.6	74.1	68.6	62.6	60.6	57.1	54.6	52.1	53.0
65°	66.1	63.6	58.5	53.6	50.5	46.6	42.5	41.0	42.0
67.5°	56.5	54.6	49.5	44.5	42.0	37.5	33.6	33.6	34.0
70°	47.0	45.1	41.0	36.5	33.6	29.5	28.0	28.5	28.5
72.5°	38.5	37.1	33.0	29.0	26.0	23.5	23.5	24.1	24.5
75°	30.5	29.5	25.5	22.0	20.0	18.5	19.5	20.0	20.6
77.5°	23.5	22.0	19.0	16.5	15.0	15.5	16.5	17.1	17.5
80°	16.5	16.0	13.6	12.0	11.5	12.0	13.0	13.6	13.6
82.5°	10.5	10.1	8.5	8.0	8.0	8.5	9.5	9.5	9.5
85°	5.5	5.0	4.5	4.5	5.0	5.5	6.0	6.0	6.0
87.5°	2.0	1.5	2.0	2.0	2.5	2.5	2.5	2.5	2.5
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)