

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: P582879

Luminaire Tested: **HCC6W05D010BZ-HM60525830-61WWBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582879  
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: HCC6W05D010BZ-HM60525830-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

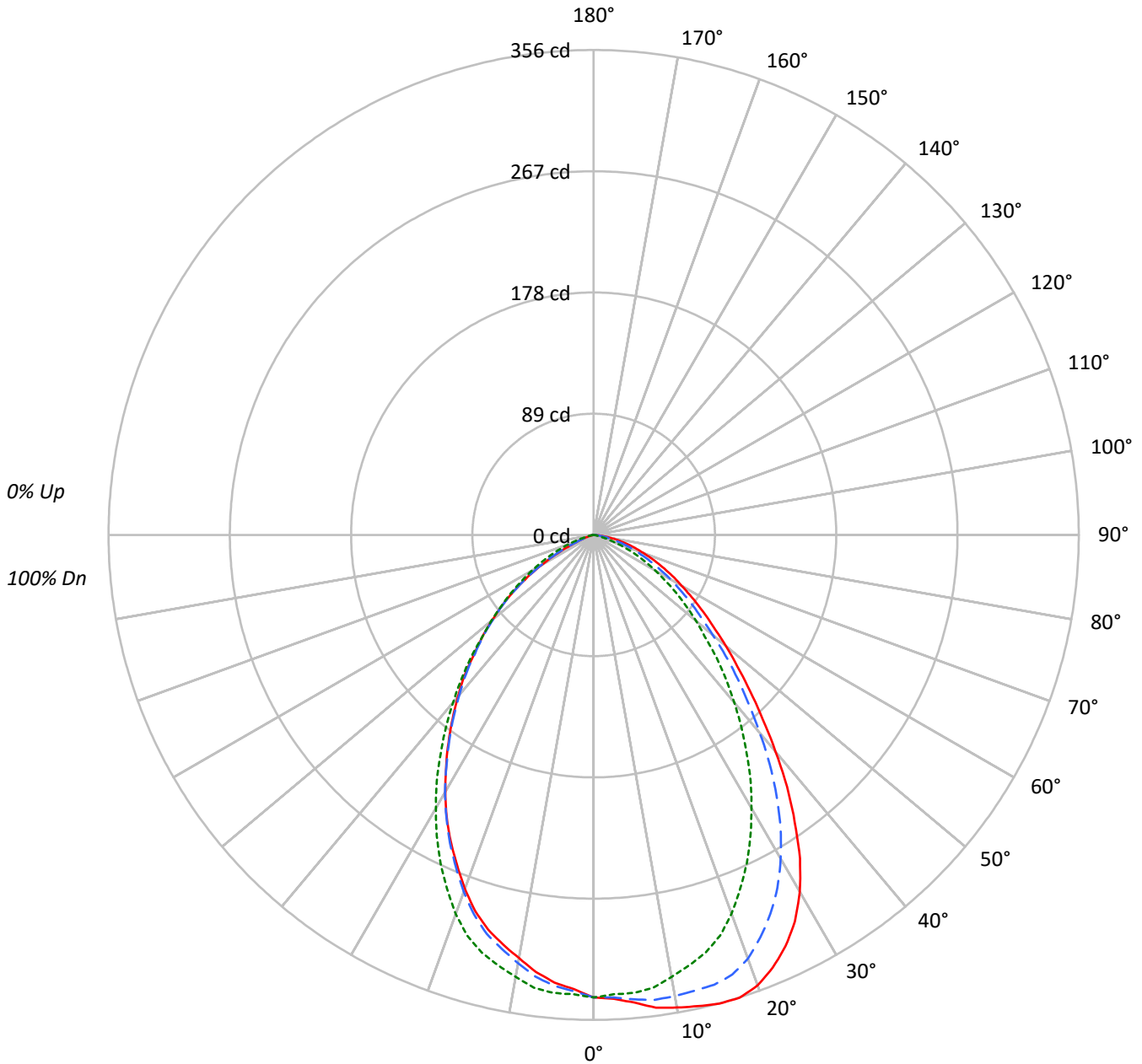
Lumens per Lamp: N/A  
Luminaire Lumens: 604.8 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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



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### Luminous Intensity Polar Plot



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**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	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	67	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°	18611	18611	18611
5°	18963	18572	18149
10°	19611	18336	17563
15°	20216	18014	17015
20°	20529	17262	16125
25°	20154	16084	15019
30°	19155	14654	13774
35°	17219	13097	12428
40°	14864	11471	11099
45°	12583	9885	9621
50°	10797	8349	8273
55°	9357	7034	6748
60°	8168	5701	4824
65°	7186	4397	2672
70°	6187	2917	1298
75°	5274	1419	508
80°	4072	600	284
85°	2390	314	314



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.0	5.3
10°-20°	90.6	15.0
20°-30°	127.6	21.1
30°-40°	130.3	21.5
40°-50°	105.1	17.4
50°-60°	70.5	11.7
60°-70°	35.7	5.9
70°-80°	11.4	1.9
80°-90°	1.8	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°	250.2	41.4
0°-40°	380.5	62.9
0°-60°	556.0	91.9
0°-90°	604.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	604.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	340	340	340	340	340	
5°	345	342	338	332	330	33
15°	356	342	317	303	300	101
25°	333	307	266	250	248	153
35°	257	234	196	185	186	160
45°	162	149	128	123	124	126
55°	98	87	74	70	71	88
65°	55	46	34	22	21	55
75°	25	18	7	2	2	27
85°	4	2	0	0	0	5
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	339.5	339.5	339.5	339.5	339.5	339.5	339.5	339.5	339.5
2.5°	340.8	340.4	339.9	338.9	337.5	336.1	335.2	334.1	333.7
5°	344.6	343.7	342.3	340.4	337.5	334.1	332.2	330.3	329.8
7.5°	350.0	348.0	344.2	339.9	335.2	330.3	327.0	325.1	323.6
10°	352.3	348.9	343.7	336.5	329.4	323.6	319.3	316.5	315.5
12.5°	354.3	350.4	342.7	333.2	323.6	316.1	311.2	308.8	307.9
15°	356.2	352.3	341.8	329.4	317.4	308.4	303.2	300.8	299.8
17.5°	356.2	350.9	338.4	322.7	308.4	297.4	292.1	289.7	289.3
20°	351.9	346.1	330.9	312.2	295.9	283.5	278.8	277.3	276.4
22.5°	343.7	337.1	319.8	298.9	281.1	269.3	264.0	263.1	262.0
25°	333.2	326.6	306.9	284.5	265.9	253.9	249.6	248.7	248.3
27.5°	319.8	312.7	292.1	269.3	249.2	237.8	233.9	233.9	233.5
30°	302.6	294.6	274.5	251.5	231.5	221.0	218.2	218.2	217.6
32.5°	281.7	273.6	255.4	233.5	214.4	203.4	201.0	201.9	201.5
35°	257.3	250.6	233.9	212.4	195.7	185.7	184.8	185.7	185.7
37.5°	233.0	226.8	212.4	193.8	178.1	169.0	169.0	170.4	170.0
40°	207.7	202.8	189.5	173.3	160.3	154.2	153.2	154.7	155.1
42.5°	183.7	180.0	168.5	155.1	143.7	137.5	138.9	139.9	140.3
45°	162.3	158.5	149.4	135.6	127.5	123.2	123.2	124.6	124.1
47.5°	143.2	140.3	131.3	117.9	110.7	108.8	109.8	110.7	110.7
50°	126.6	122.3	113.6	103.2	97.9	95.5	96.4	97.0	97.0
52.5°	110.7	107.9	99.3	89.7	85.0	83.5	83.5	84.1	84.1
55°	97.9	94.5	86.9	77.3	73.6	71.6	70.2	69.7	70.6
57.5°	85.4	82.6	75.4	66.3	62.0	60.1	57.3	56.4	57.3
60°	74.5	72.1	65.0	56.4	52.0	48.3	44.9	42.9	44.0
62.5°	65.0	62.0	54.9	47.7	42.9	38.6	33.4	30.5	32.0
65°	55.4	53.0	45.9	38.6	33.9	28.6	22.5	20.6	20.6
67.5°	46.8	44.4	37.7	31.5	25.8	19.5	13.9	13.3	13.9
70°	38.6	36.3	30.5	24.3	18.2	12.0	8.1	8.1	8.1
72.5°	32.0	29.2	23.8	17.6	11.4	6.2	4.3	4.7	4.7
75°	24.9	22.5	17.6	12.0	6.7	2.8	2.4	2.4	2.4
77.5°	18.6	16.7	12.4	7.7	3.4	0.9	0.9	0.9	0.9
80°	12.9	11.0	8.1	4.7	1.9	0.9	0.9	0.9	0.9
82.5°	7.7	6.7	4.7	2.4	0.9	0.5	0.5	0.5	0.5
85°	3.8	3.4	1.9	0.9	0.5	0.5	0.5	0.5	0.5
87.5°	0.9	0.9	0.5	0.5	0.0	0.5	0.5	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report



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— 0°-180°    - - 45°-225°    - - - - 90°-270°

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