

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: P593031

Luminaire Tested: **HCC6W07D010BZ-HM60525850-61WWBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593031  
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: HCC6W07D010BZ-HM60525850-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

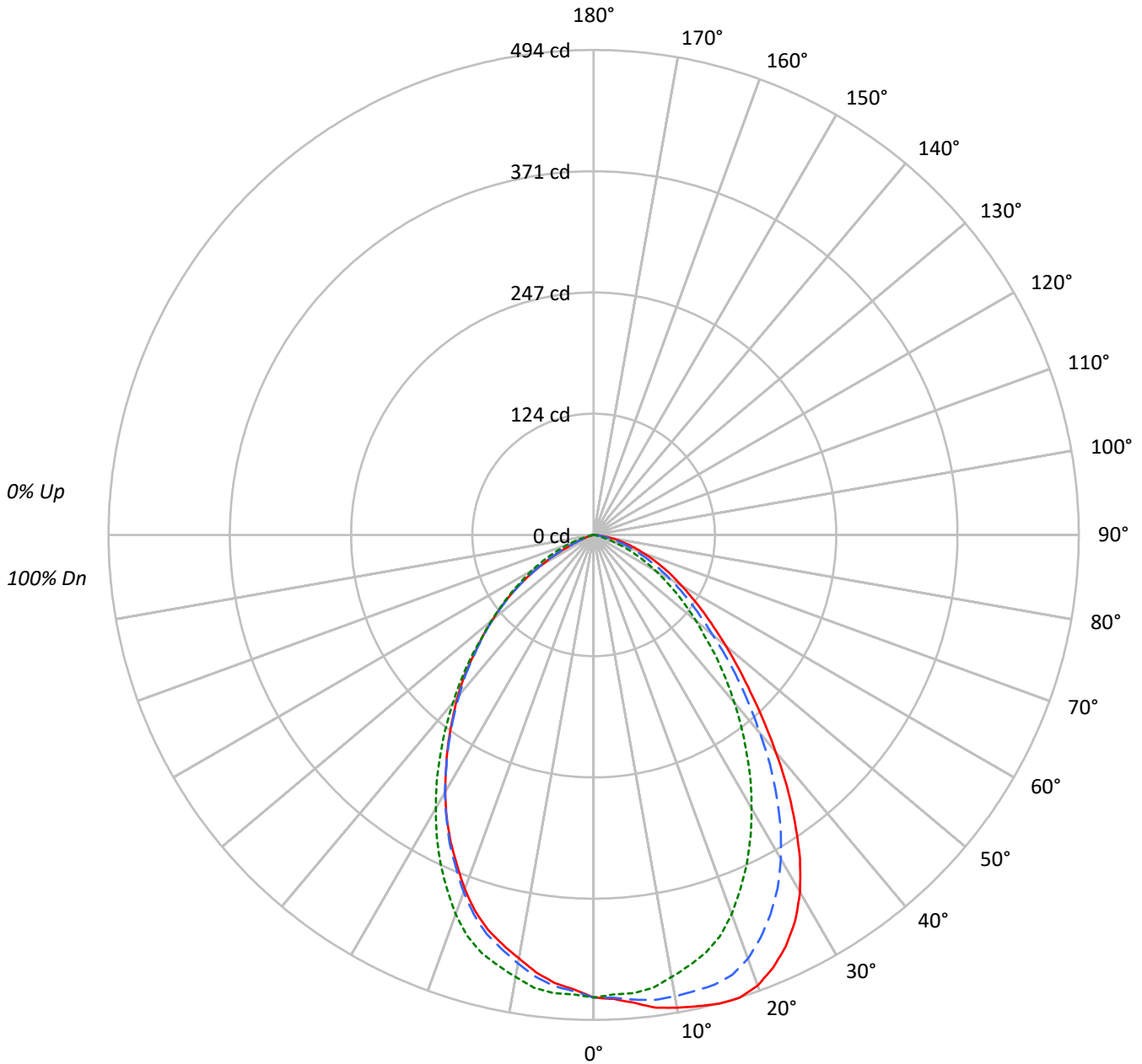
Lumens per Lamp: N/A  
Luminaire Lumens: 839.7 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 8  
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	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	66	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°	25831	25831	25831
5°	26332	25781	25204
10°	27226	25456	24382
15°	28059	25011	23621
20°	28492	23971	22384
25°	27981	22326	20850
30°	26593	20345	19130
35°	23905	18183	17253
40°	20624	15930	15415
45°	17475	13722	13358
50°	14976	11582	11471
55°	12979	9758	9376
60°	11326	7927	6688
65°	9975	6097	3710
70°	8607	4039	1795
75°	7286	1970	699
80°	5651	821	442
85°	3334	440	440



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.5	5.3
10°-20°	125.7	15.0
20°-30°	177.1	21.1
30°-40°	180.9	21.5
40°-50°	145.9	17.4
50°-60°	97.8	11.7
60°-70°	49.5	5.9
70°-80°	15.8	1.9
80°-90°	2.5	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°	347.3	41.4
0°-40°	528.2	62.9
0°-60°	771.9	91.9
0°-90°	839.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	839.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	471	471	471	471	471	
5°	478	475	468	461	458	46
15°	494	474	441	421	416	140
25°	463	426	369	347	345	212
35°	357	325	272	256	258	222
45°	225	208	177	171	172	175
55°	136	121	102	97	98	122
65°	77	64	47	31	29	77
75°	34	24	9	3	3	37
85°	5	3	1	1	1	7
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°	471.2	471.2	471.2	471.2	471.2	471.2	471.2	471.2	471.2
2.5°	473.1	472.6	471.9	470.5	468.5	466.6	465.2	463.9	463.3
5°	478.5	477.1	475.2	472.6	468.5	463.9	461.2	458.6	458.0
7.5°	485.7	483.1	477.8	471.9	465.2	458.6	454.0	451.3	449.3
10°	489.1	484.5	477.1	467.2	457.3	449.3	443.3	439.4	438.0
12.5°	491.7	486.4	475.9	462.6	449.3	438.7	432.1	428.7	427.5
15°	494.4	489.1	474.5	457.3	440.7	428.2	420.8	417.5	416.2
17.5°	494.4	487.1	469.9	448.0	428.2	412.9	405.6	402.2	401.6
20°	488.4	480.5	459.3	433.4	410.9	393.6	387.0	385.0	383.7
22.5°	477.1	467.9	444.0	414.9	390.3	373.8	366.5	365.2	363.8
25°	462.6	453.3	426.1	395.0	369.1	352.6	346.6	345.2	344.7
27.5°	444.0	434.1	405.6	373.8	345.9	330.0	324.7	324.7	324.0
30°	420.1	408.9	381.0	349.3	321.4	306.8	302.9	302.9	302.2
32.5°	391.0	379.8	354.5	324.0	297.5	282.3	279.1	280.3	279.6
35°	357.2	347.9	324.7	294.9	271.7	257.8	256.5	257.8	257.8
37.5°	323.4	314.7	294.9	269.1	247.2	234.6	234.6	236.6	235.9
40°	288.2	281.7	263.1	240.5	222.6	214.0	212.8	214.7	215.4
42.5°	255.2	249.8	234.0	215.4	199.5	190.9	192.8	194.2	194.9
45°	225.4	220.0	207.5	188.2	177.0	171.0	171.0	173.0	172.3
47.5°	198.8	194.9	182.3	163.7	153.7	151.1	152.4	153.7	153.7
50°	175.6	169.6	157.7	143.1	135.8	132.6	133.9	134.5	134.5
52.5°	153.7	149.8	137.9	124.6	117.9	116.0	116.0	116.6	116.6
55°	135.8	131.2	120.7	107.4	102.1	99.4	97.4	96.8	98.1
57.5°	118.6	114.7	104.7	92.1	86.1	83.5	79.5	78.2	79.5
60°	103.3	100.0	90.1	78.2	72.3	67.0	62.3	59.6	61.0
62.5°	90.1	86.1	76.3	66.3	59.6	53.7	46.3	42.4	44.4
65°	76.9	73.5	63.7	53.7	47.0	39.8	31.2	28.6	28.6
67.5°	64.9	61.6	52.3	43.7	35.8	27.2	19.3	18.6	19.3
70°	53.7	50.4	42.4	33.8	25.2	16.5	11.2	11.2	11.2
72.5°	44.4	40.4	33.1	24.5	15.9	8.6	6.0	6.6	6.6
75°	34.4	31.2	24.5	16.5	9.3	4.0	3.3	3.3	3.3
77.5°	25.8	23.2	17.2	10.7	4.6	1.4	1.4	1.4	1.4
80°	17.9	15.3	11.2	6.6	2.6	1.4	1.4	1.4	1.4
82.5°	10.7	9.3	6.6	3.3	1.4	0.7	0.7	0.7	0.7
85°	5.3	4.6	2.6	1.4	0.7	0.7	0.7	0.7	0.7
87.5°	1.4	1.4	0.7	0.7	0.0	0.7	0.7	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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