

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: P583293

Luminaire Tested: **HCC6S07D010BZ-HM60525827-61WWBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583293  
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: HCC6S07D010BZ-HM60525827-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

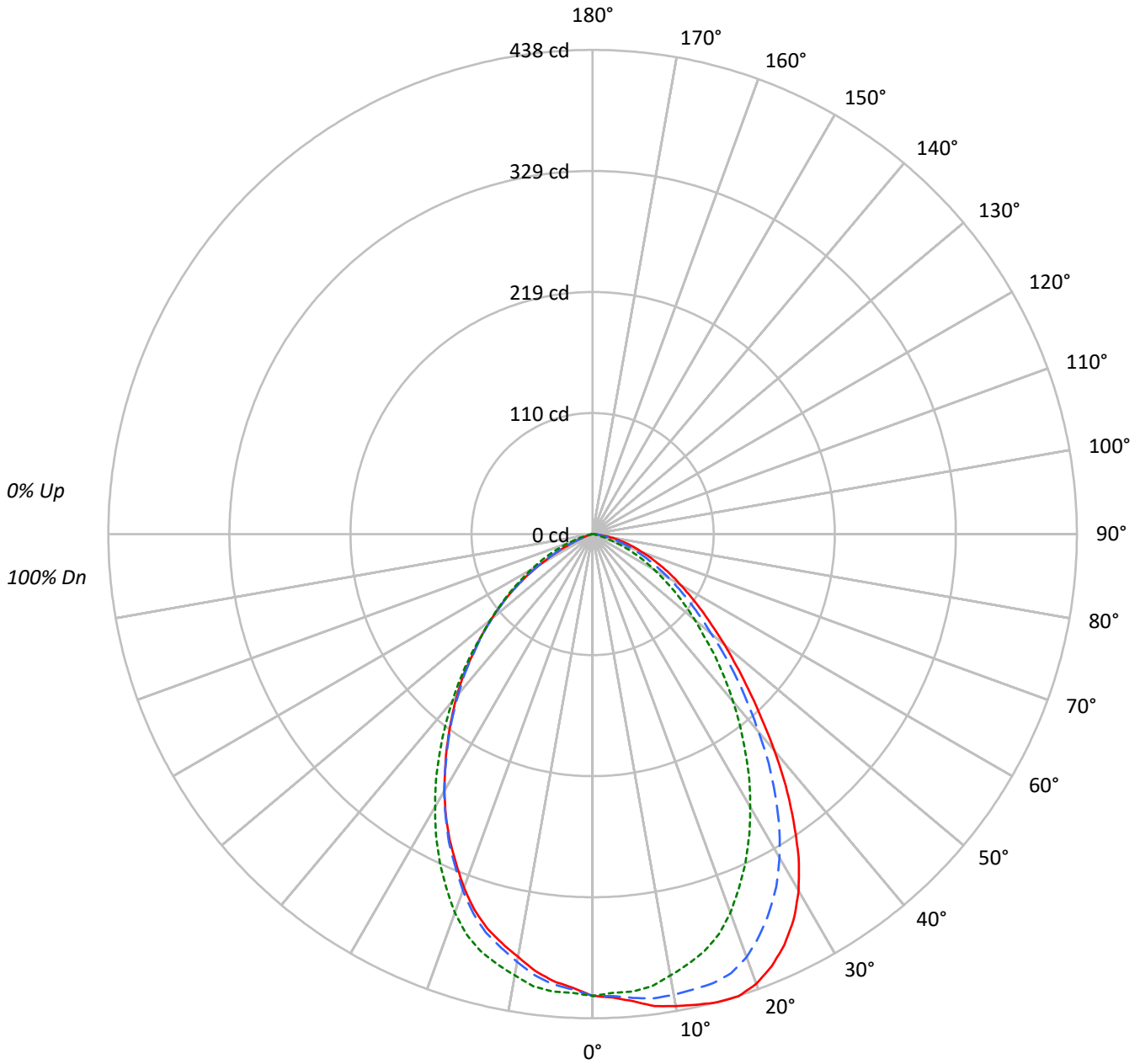
Lumens per Lamp: N/A  
Luminaire Lumens: 744.4 lumens  
Efficiency: N/A  
Efficacy: 93.0 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (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



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### Luminous Intensity Polar Plot



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**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	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°	22898	22898	22898
5°	23344	22859	22342
10°	24137	22567	21621
15°	24881	22174	20942
20°	25261	21253	19847
25°	24806	19791	18485
30°	23580	18034	16965
35°	21195	16122	15292
40°	18291	14126	13661
45°	15482	12164	11838
50°	13279	10268	10175
55°	11507	8650	8306
60°	10054	7017	5921
65°	8847	5409	3282
70°	7629	3574	1603
75°	6481	1758	614
80°	5020	758	347
85°	2893	377	377



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.4	5.3
10°-20°	111.5	15.0
20°-30°	157.0	21.1
30°-40°	160.4	21.5
40°-50°	129.3	17.4
50°-60°	86.7	11.7
60°-70°	43.9	5.9
70°-80°	14.0	1.9
80°-90°	2.2	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°	307.9	41.4
0°-40°	468.3	62.9
0°-60°	684.3	91.9
0°-90°	744.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	744.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	418	418	418	418	418	
5°	424	421	415	409	406	41
15°	438	421	391	373	369	124
25°	410	378	327	307	306	188
35°	317	288	241	227	228	197
45°	200	184	157	152	153	155
55°	120	107	90	86	87	108
65°	68	56	42	28	25	68
75°	31	22	8	3	3	33
85°	5	2	1	1	1	6
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°	417.7	417.7	417.7	417.7	417.7	417.7	417.7	417.7	417.7
2.5°	419.5	418.9	418.3	417.2	415.4	413.7	412.4	411.3	410.7
5°	424.2	423.1	421.2	418.9	415.4	411.3	408.9	406.5	406.0
7.5°	430.7	428.3	423.6	418.3	412.4	406.5	402.4	400.1	398.4
10°	433.6	429.5	423.1	414.2	405.4	398.4	393.0	389.5	388.4
12.5°	436.0	431.2	421.8	410.1	398.4	389.0	383.1	380.1	379.0
15°	438.4	433.6	420.7	405.4	390.7	379.6	373.1	370.2	369.0
17.5°	438.4	431.8	416.6	397.2	379.6	366.1	359.6	356.7	356.1
20°	433.0	426.0	407.2	384.2	364.3	349.0	343.1	341.4	340.2
22.5°	423.1	414.8	393.6	367.8	346.0	331.4	324.9	323.7	322.6
25°	410.1	401.9	377.7	350.2	327.2	312.6	307.3	306.1	305.6
27.5°	393.6	384.9	359.6	331.4	306.7	292.5	287.9	287.9	287.3
30°	372.5	362.6	337.9	309.6	284.9	272.0	268.5	268.5	268.0
32.5°	346.7	336.6	314.3	287.3	263.8	250.3	247.3	248.6	247.9
35°	316.7	308.4	287.9	261.5	240.9	228.5	227.4	228.5	228.5
37.5°	286.8	279.1	261.5	238.5	219.1	208.0	208.0	209.7	209.2
40°	255.6	249.7	233.3	213.2	197.4	189.8	188.6	190.3	190.9
42.5°	226.1	221.5	207.5	190.9	176.9	169.2	171.0	172.1	172.8
45°	199.7	195.1	183.9	166.9	156.9	151.6	151.6	153.3	152.7
47.5°	176.3	172.8	161.6	145.1	136.3	133.9	135.2	136.3	136.3
50°	155.7	150.5	139.8	126.9	120.4	117.5	118.7	119.3	119.3
52.5°	136.3	132.8	122.3	110.5	104.6	102.8	102.8	103.4	103.4
55°	120.4	116.4	107.0	95.2	90.5	88.1	86.3	85.8	86.9
57.5°	105.1	101.6	92.8	81.7	76.4	74.0	70.5	69.3	70.5
60°	91.7	88.7	79.9	69.3	64.0	59.4	55.2	52.9	54.0
62.5°	79.9	76.4	67.5	58.8	52.9	47.6	41.1	37.6	39.3
65°	68.2	65.3	56.4	47.6	41.7	35.2	27.6	25.3	25.3
67.5°	57.6	54.6	46.5	38.7	31.7	24.1	17.0	16.4	17.0
70°	47.6	44.6	37.6	29.9	22.3	14.7	10.0	10.0	10.0
72.5°	39.3	35.8	29.3	21.8	14.0	7.6	5.3	5.9	5.9
75°	30.6	27.6	21.8	14.7	8.3	3.5	2.9	2.9	2.9
77.5°	22.9	20.5	15.3	9.4	4.1	1.1	1.1	1.1	1.1
80°	15.9	13.5	10.0	5.9	2.4	1.1	1.1	1.1	1.1
82.5°	9.4	8.3	5.9	2.9	1.1	0.6	0.6	0.6	0.6
85°	4.6	4.1	2.4	1.1	0.6	0.6	0.6	0.6	0.6
87.5°	1.1	1.1	0.6	0.6	0.0	0.6	0.6	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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