

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: P593033

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593033  
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: HCC6W07D010BZ-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**

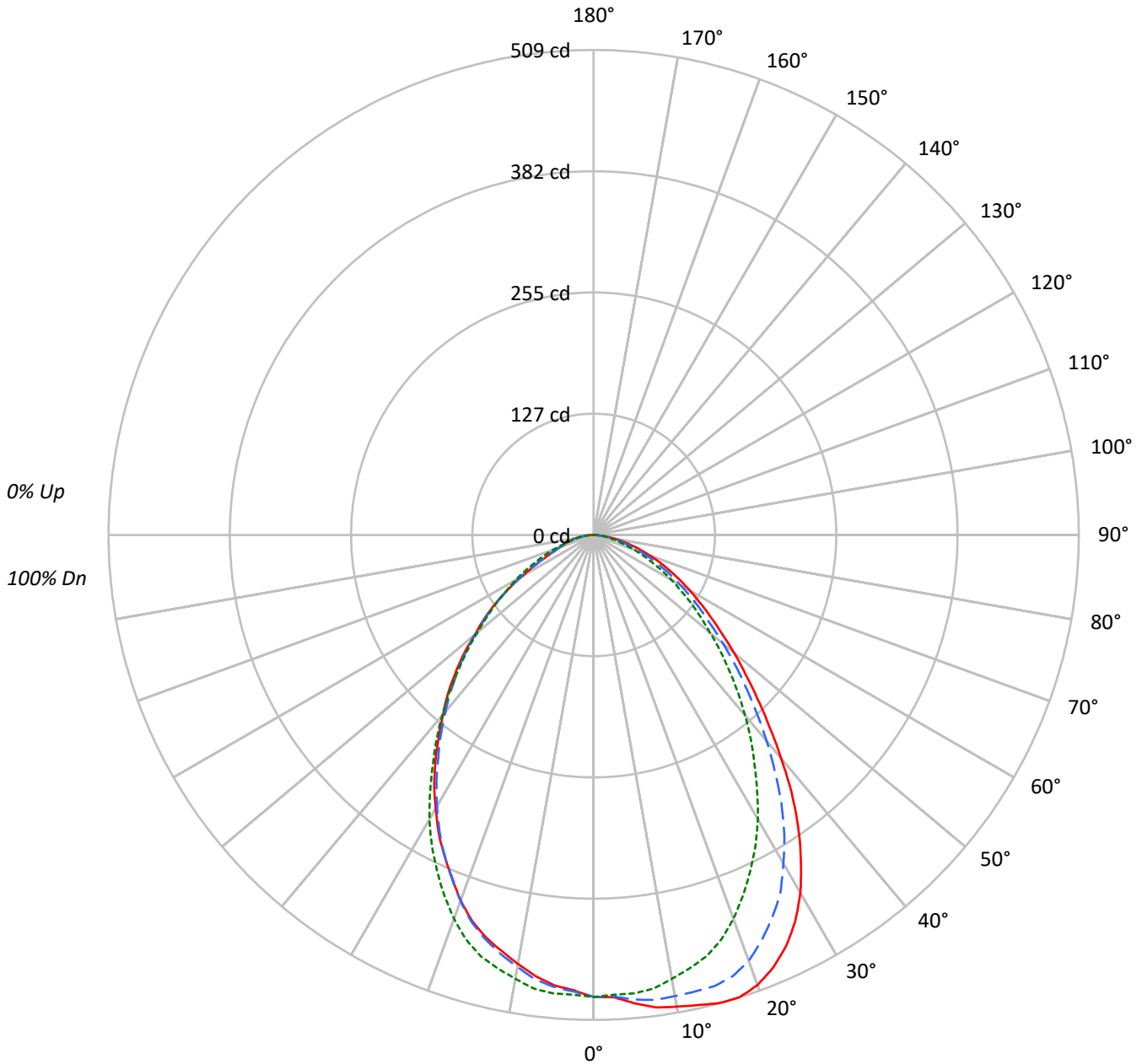
Lumens per Lamp: N/A  
Luminaire Lumens: 949.7 lumens  
Efficiency: N/A  
Efficacy: 118.7 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76				
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66				
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58				
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52				
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46				
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42				
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38				
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34				
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31				

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

	0°	90°	180°
0°	26582	26582	26582
5°	27157	26579	26106
10°	27989	26330	25450
15°	28876	25976	24813
20°	29333	25004	23808
25°	28852	23517	22435
30°	27466	21807	20972
35°	25049	19682	19374
40°	21898	17683	17583
45°	18847	15568	15924
50°	16392	13560	13850
55°	14308	11899	12033
60°	12707	10306	9440
65°	11350	8691	7212
70°	9986	7117	6043
75°	8557	5613	5761
80°	6914	4799	5651
85°	4592	4151	4969



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.9	4.8
10°-20°	130.7	13.8
20°-30°	186.6	19.6
30°-40°	195.4	20.6
40°-50°	164.6	17.3
50°-60°	117.1	12.3
60°-70°	68.6	7.2
70°-80°	32.4	3.4
80°-90°	8.3	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°	363.2	38.2
0°-40°	558.7	58.8
0°-60°	840.3	88.5
0°-90°	949.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	949.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	485	485	485	485	485	
5°	494	490	483	476	474	47
15°	509	490	458	439	437	144
25°	477	443	389	370	371	218
35°	374	343	294	284	290	232
45°	243	225	201	201	205	189
55°	150	137	124	124	126	135
65°	88	78	67	56	56	87
75°	40	34	26	26	27	43
85°	7	6	7	8	8	9
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°	484.9	484.9	484.9	484.9	484.9	484.9	484.9	484.9	484.9
2.5°	485.6	485.6	484.9	484.2	483.0	481.0	479.6	478.4	478.4
5°	493.5	492.2	489.6	486.3	483.0	479.0	476.3	474.4	474.4
7.5°	500.2	497.5	492.2	486.3	480.3	475.0	470.4	467.7	467.0
10°	502.8	499.5	491.6	482.3	473.0	465.8	460.5	457.2	457.2
12.5°	505.4	501.5	490.9	477.7	465.8	455.8	450.5	447.9	447.2
15°	508.8	503.5	490.2	473.7	457.7	446.5	439.3	437.2	437.2
17.5°	508.8	502.1	485.6	465.1	445.2	432.6	426.0	424.0	424.6
20°	502.8	495.6	475.6	450.5	428.6	415.4	408.8	407.4	408.1
22.5°	491.6	483.0	460.5	433.3	409.5	395.5	389.5	389.5	388.8
25°	477.0	467.7	443.2	414.7	388.8	375.0	370.4	370.9	370.9
27.5°	457.7	448.6	424.0	393.5	367.7	353.7	350.4	351.8	352.5
30°	433.9	424.0	398.1	368.3	344.5	330.6	328.6	330.6	331.3
32.5°	404.8	397.5	372.3	341.8	319.3	307.4	306.7	308.7	311.3
35°	374.3	366.4	343.2	315.3	294.1	284.2	284.2	287.6	289.5
37.5°	341.1	333.2	312.0	288.8	271.0	261.7	263.0	266.4	266.9
40°	306.0	300.1	282.2	262.4	247.1	239.9	241.8	245.1	245.7
42.5°	272.9	267.6	253.1	235.2	223.9	218.7	221.3	225.2	226.6
45°	243.1	237.1	225.2	210.1	200.8	198.0	201.4	204.1	205.4
47.5°	215.9	210.6	200.8	186.8	180.1	178.9	182.2	183.5	184.8
50°	192.2	186.8	176.9	164.3	159.0	159.0	161.7	162.9	162.4
52.5°	168.9	164.3	155.0	144.5	141.1	141.1	143.1	143.8	145.1
55°	149.7	145.1	137.1	127.2	124.5	123.3	124.5	124.5	125.9
57.5°	131.9	127.9	120.6	111.3	108.0	106.6	106.0	105.4	106.6
60°	115.9	112.6	104.7	96.8	94.0	90.8	88.1	85.4	86.1
62.5°	101.4	98.0	90.8	82.8	80.2	75.6	72.2	68.9	70.2
65°	87.5	84.2	77.5	70.9	67.0	61.6	56.3	54.3	55.6
67.5°	74.9	72.2	65.6	58.9	55.6	49.7	44.4	44.4	45.1
70°	62.3	59.6	54.3	48.4	44.4	39.1	37.0	37.7	37.7
72.5°	51.0	49.1	43.7	38.4	34.4	31.2	31.2	31.8	32.5
75°	40.4	39.1	33.8	29.1	26.5	24.5	25.8	26.5	27.2
77.5°	31.2	29.1	25.2	21.9	19.8	20.5	21.9	22.5	23.2
80°	21.9	21.2	17.9	15.9	15.2	15.9	17.2	17.9	17.9
82.5°	13.9	13.3	11.2	10.7	10.7	11.2	12.6	12.6	12.6
85°	7.3	6.6	6.0	6.0	6.6	7.3	7.9	7.9	7.9
87.5°	2.6	2.0	2.6	2.6	3.3	3.3	3.3	3.3	3.3
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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