

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: P583304

Luminaire Tested: **HCC6W07D010BZ-HM60525830-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583304  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W07D010BZ-HM60525830-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

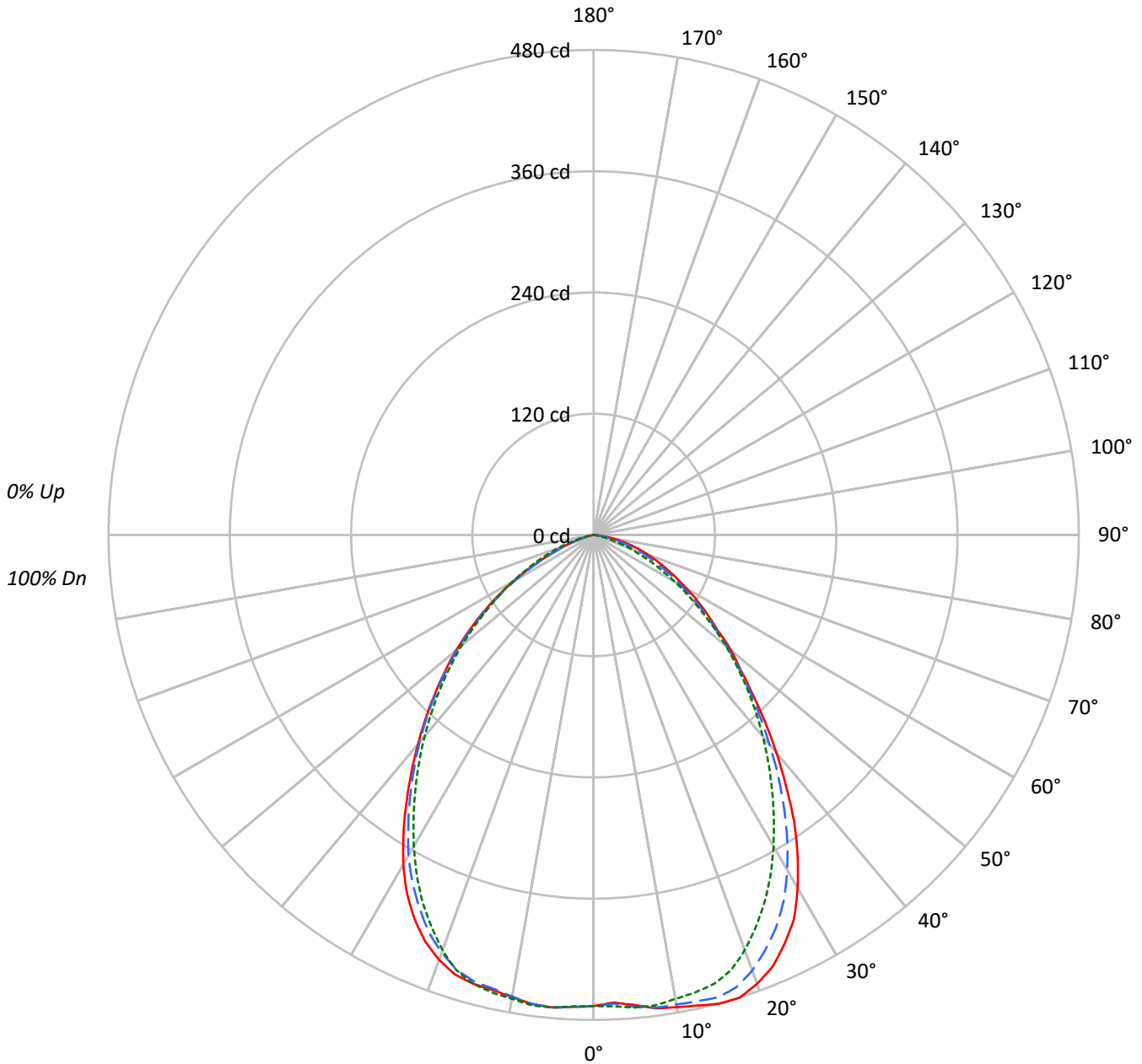
Lumens per Lamp: N/A  
Luminaire Lumens: 941.6 lumens  
Efficiency: N/A  
Efficacy: 117.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88								
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77								
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68								
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	59								
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53								
6	76	64	56	50	74	63	56	50	62	55	50	60	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35								
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

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

	0°	90°	180°
0°	25563	25563	25563
5°	25699	25836	25836
10°	26419	25957	25857
15°	27259	26107	26107
20°	27577	25511	26101
25°	27020	24231	25374
30°	25561	22522	23839
35°	23135	20592	21609
40°	20123	18635	19351
45°	17196	16614	17196
50°	15095	14550	15138
55°	13170	12262	12750
60°	11644	10186	10054
65°	10325	8042	6888
70°	9120	5658	4151
75°	7752	3219	2012
80°	5809	1010	600
85°	3208	440	440



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.7	4.8
10°-20°	130.9	13.9
20°-30°	191.2	20.3
30°-40°	200.5	21.3
40°-50°	168.9	17.9
50°-60°	118.3	12.6
60°-70°	63.4	6.7
70°-80°	21.3	2.3
80°-90°	2.3	0.2
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°	366.8	39.0
0°-40°	567.3	60.2
0°-60°	854.5	90.8
0°-90°	941.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	941.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	466	466	466	466	466	
5°	467	469	470	470	470	45
15°	480	474	460	458	460	135
25°	447	428	401	408	420	205
35°	346	328	308	317	323	215
45°	222	218	214	220	222	173
55°	138	133	128	131	133	124
65°	80	73	62	51	53	79
75°	37	28	15	10	10	39
85°	5	2	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°	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3
2.5°	463.2	463.2	464.5	465.8	467.0	467.0	467.6	468.3	467.6
5°	467.0	467.0	468.9	469.5	469.5	468.9	469.5	469.5	469.5
7.5°	472.7	471.4	472.0	470.8	469.5	468.9	468.3	468.3	468.3
10°	474.6	473.4	472.0	469.5	466.3	464.5	463.9	464.5	464.5
12.5°	477.1	475.9	472.7	467.6	463.9	460.7	460.0	461.4	461.4
15°	480.3	479.0	473.9	465.8	460.0	456.9	457.5	458.8	460.0
17.5°	480.3	477.8	469.5	458.8	451.8	448.7	451.2	454.3	456.3
20°	472.7	470.2	458.8	445.5	437.3	435.4	439.8	445.5	447.4
22.5°	462.6	457.5	444.2	428.5	419.5	419.5	425.9	432.9	435.4
25°	446.7	443.0	427.8	409.5	400.6	400.1	407.7	417.1	419.5
27.5°	429.1	424.1	407.7	388.6	379.2	379.8	388.1	397.5	400.1
30°	403.8	397.5	383.0	364.6	355.8	358.3	366.5	373.4	376.6
32.5°	375.4	369.7	356.4	339.3	331.7	334.3	341.3	347.6	350.1
35°	345.7	339.3	328.0	312.8	307.7	310.3	316.6	321.7	322.9
37.5°	312.1	307.7	299.6	287.6	283.7	286.9	292.0	295.1	296.4
40°	281.2	277.5	270.4	261.6	260.4	262.9	268.0	269.9	270.4
42.5°	250.8	247.7	243.3	237.0	237.0	239.5	243.9	245.2	245.9
45°	221.8	219.9	218.0	213.0	214.3	217.4	219.9	221.8	221.8
47.5°	196.6	197.1	194.6	190.8	192.2	195.2	197.1	199.1	199.1
50°	177.0	175.0	172.6	168.7	170.6	173.1	175.7	177.0	177.5
52.5°	154.2	153.5	151.7	147.3	148.5	149.8	152.3	154.2	154.9
55°	137.8	135.8	133.4	128.3	128.3	129.5	130.9	132.1	133.4
57.5°	121.9	120.1	116.2	110.6	109.9	109.9	109.3	110.6	112.5
60°	106.2	105.5	99.8	94.8	92.9	91.0	88.5	89.1	91.7
62.5°	92.2	91.0	86.0	79.6	75.8	72.6	69.6	68.9	71.4
65°	79.6	78.4	72.6	66.4	62.0	56.2	51.2	51.2	53.1
67.5°	68.2	65.7	60.6	53.7	48.0	41.1	36.0	37.3	38.0
70°	56.9	55.0	49.3	42.4	35.3	28.4	25.3	25.9	25.9
72.5°	46.8	44.2	38.5	31.6	24.7	18.4	17.1	16.4	16.4
75°	36.6	34.1	28.4	21.5	15.2	10.8	9.5	9.5	9.5
77.5°	26.5	24.7	19.6	13.3	8.3	5.1	4.4	3.7	3.7
80°	18.4	16.4	12.0	6.9	3.2	1.9	1.9	1.9	1.9
82.5°	10.8	8.8	5.7	3.2	1.2	0.7	0.7	0.7	0.7
85°	5.1	3.7	2.5	1.2	0.7	0.7	0.7	0.7	0.7
87.5°	0.7	0.7	0.7	0.0	0.0	0.0	0.0	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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