

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: P582872

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582872  
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: HCC6W05D010BZ-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**

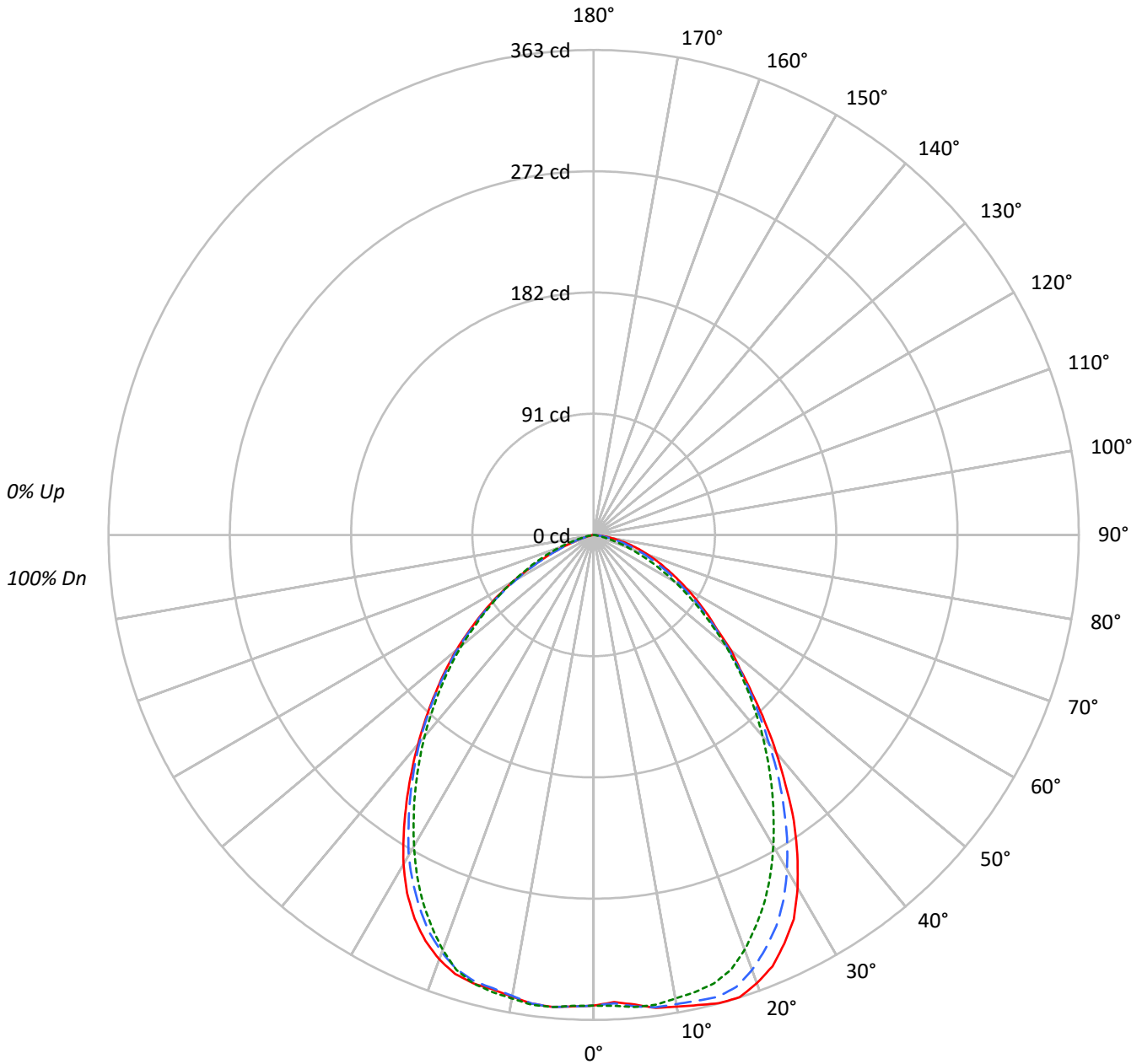
Lumens per Lamp: N/A  
Luminaire Lumens: 711.3 lumens  
Efficiency: N/A  
Efficacy: 118.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 6  
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°	19313	19313	19313
5°	19414	19519	19519
10°	19956	19611	19533
15°	20590	19728	19728
20°	20833	19275	19718
25°	20414	18310	19174
30°	19313	17015	18009
35°	17474	15566	16329
40°	15200	14076	14620
45°	12994	12544	12994
50°	11403	10993	11437
55°	9949	9271	9625
60°	8793	7697	7598
65°	7796	6071	5202
70°	6876	4296	3126
75°	5867	2415	1504
80°	4388	758	474
85°	2390	314	314



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.8	4.8
10°-20°	98.9	13.9
20°-30°	144.4	20.3
30°-40°	151.5	21.3
40°-50°	127.6	17.9
50°-60°	89.4	12.6
60°-70°	47.9	6.7
70°-80°	16.1	2.3
80°-90°	1.8	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°	277.1	39.0
0°-40°	428.6	60.2
0°-60°	645.6	90.8
0°-90°	711.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	711.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	352	352	352	352	352	
5°	353	354	355	355	355	34
15°	363	358	348	346	348	102
25°	338	323	303	308	317	155
35°	261	248	233	239	244	162
45°	168	165	162	166	168	131
55°	104	101	97	99	101	94
65°	60	55	47	39	40	60
75°	28	22	11	7	7	29
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°	352.3	352.3	352.3	352.3	352.3	352.3	352.3	352.3	352.3
2.5°	350.0	350.0	350.9	351.9	352.8	352.8	353.2	353.8	353.2
5°	352.8	352.8	354.3	354.7	354.7	354.3	354.7	354.7	354.7
7.5°	357.1	356.2	356.6	355.7	354.7	354.3	353.8	353.8	353.8
10°	358.5	357.5	356.6	354.7	352.3	350.9	350.4	350.9	350.9
12.5°	360.5	359.5	357.1	353.2	350.4	348.0	347.6	348.5	348.5
15°	362.8	361.8	358.1	351.9	347.6	345.2	345.7	346.6	347.6
17.5°	362.8	360.9	354.7	346.6	341.4	339.0	340.9	343.3	344.6
20°	357.1	355.2	346.6	336.6	330.4	328.9	332.3	336.6	338.0
22.5°	349.5	345.7	335.6	323.6	317.0	317.0	321.8	327.0	328.9
25°	337.5	334.7	323.2	309.4	302.7	302.2	307.9	315.0	317.0
27.5°	324.2	320.4	307.9	293.6	286.5	286.9	293.1	300.2	302.2
30°	305.1	300.2	289.3	275.5	268.8	270.7	276.8	282.2	284.5
32.5°	283.6	279.3	269.3	256.4	250.6	252.6	257.8	262.6	264.5
35°	261.1	256.4	247.8	236.3	232.6	234.4	239.2	243.0	244.0
37.5°	235.8	232.6	226.3	217.2	214.4	216.7	220.6	222.9	223.9
40°	212.4	209.6	204.3	197.6	196.7	198.7	202.4	203.9	204.3
42.5°	189.5	187.1	183.9	179.0	179.0	180.9	184.3	185.2	185.7
45°	167.6	166.1	164.8	160.9	161.8	164.2	166.1	167.6	167.6
47.5°	148.5	148.9	147.0	144.2	145.1	147.5	148.9	150.4	150.4
50°	133.7	132.2	130.3	127.5	128.9	130.9	132.8	133.7	134.1
52.5°	116.5	116.1	114.6	111.2	112.2	113.1	115.0	116.5	117.0
55°	104.1	102.6	100.7	97.0	97.0	97.9	98.9	99.8	100.7
57.5°	92.1	90.7	87.8	83.5	83.1	83.1	82.6	83.5	85.0
60°	80.2	79.8	75.5	71.6	70.2	68.7	66.8	67.3	69.3
62.5°	69.7	68.7	65.0	60.1	57.3	54.9	52.5	52.1	53.9
65°	60.1	59.2	54.9	50.2	46.8	42.5	38.6	38.6	40.1
67.5°	51.5	49.6	45.9	40.6	36.3	31.1	27.2	28.1	28.6
70°	42.9	41.6	37.3	32.0	26.8	21.5	19.1	19.5	19.5
72.5°	35.4	33.4	29.2	23.8	18.6	13.9	12.9	12.4	12.4
75°	27.7	25.8	21.5	16.3	11.4	8.1	7.1	7.1	7.1
77.5°	20.0	18.6	14.8	10.1	6.2	3.8	3.4	2.8	2.8
80°	13.9	12.4	9.0	5.2	2.4	1.5	1.5	1.5	1.5
82.5°	8.1	6.7	4.3	2.4	0.9	0.5	0.5	0.5	0.5
85°	3.8	2.8	1.9	0.9	0.5	0.5	0.5	0.5	0.5
87.5°	0.5	0.5	0.5	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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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

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