

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: P583358

Luminaire Tested: **HCC6W07D010BZ-HM60525927-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583358  
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-HM60525927-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

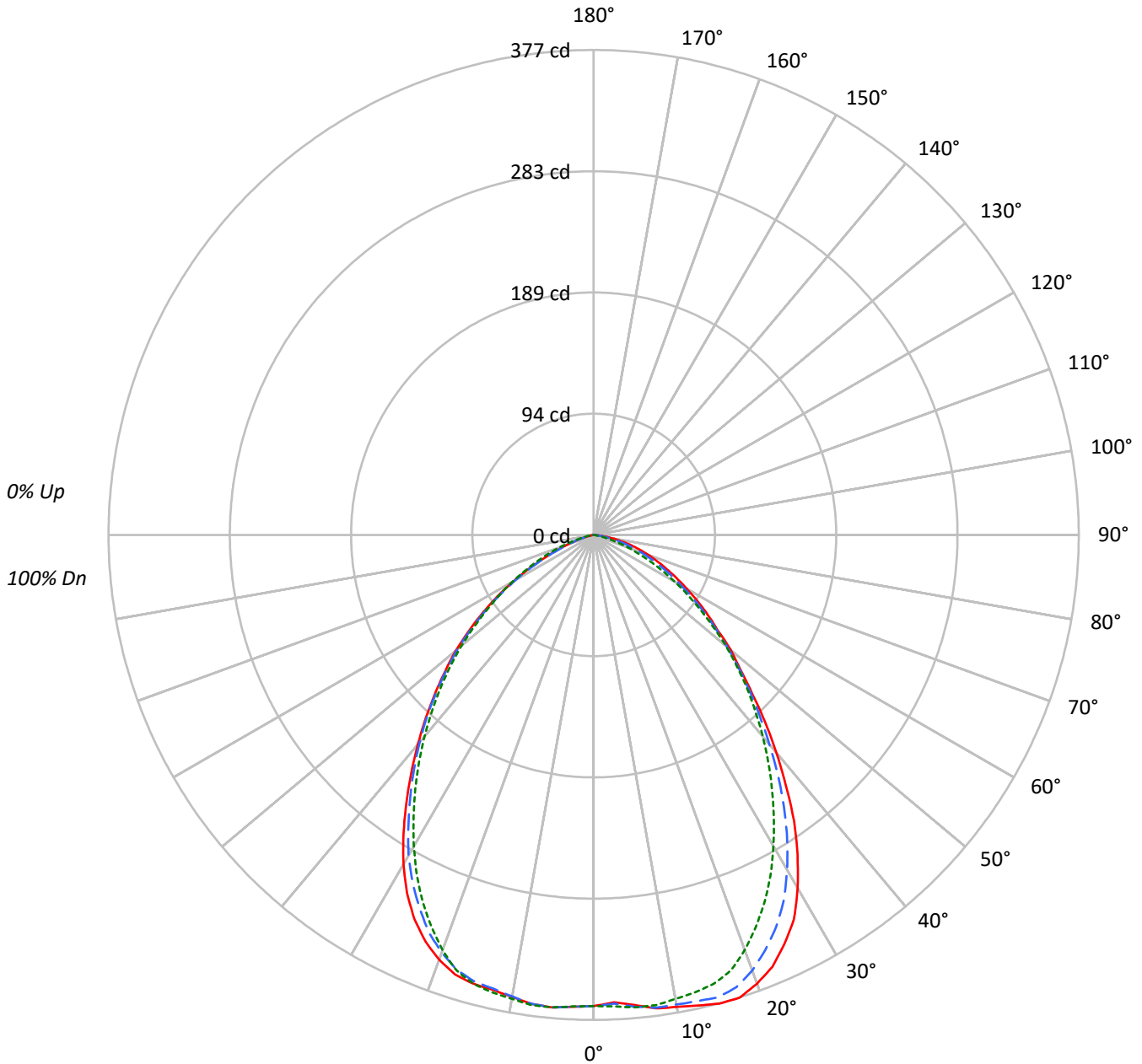
Lumens per Lamp: N/A  
Luminaire Lumens: 739.3 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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	60								
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°	20075	20075	20075
5°	20185	20289	20289
10°	20741	20385	20301
15°	21408	20500	20500
20°	21655	20033	20494
25°	21219	19029	19931
30°	20073	17686	18718
35°	18170	16175	16972
40°	15801	14627	15200
45°	13498	13048	13498
50°	11846	11428	11897
55°	10341	9625	10007
60°	9144	8004	7883
65°	8107	6304	5409
70°	7149	4456	3270
75°	6100	2521	1589
80°	4546	789	474
85°	2516	314	314



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.1	4.8
10°-20°	102.8	13.9
20°-30°	150.1	20.3
30°-40°	157.4	21.3
40°-50°	132.6	17.9
50°-60°	92.9	12.6
60°-70°	49.8	6.7
70°-80°	16.7	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°	288.0	39.0
0°-40°	445.4	60.2
0°-60°	671.0	90.8
0°-90°	739.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	739.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	366	366	366	366	366	
5°	367	368	369	369	369	35
15°	377	372	361	359	361	106
25°	351	336	315	320	330	161
35°	272	258	242	249	254	168
45°	174	171	168	173	174	136
55°	108	105	101	103	105	97
65°	62	57	49	40	42	62
75°	29	22	12	8	8	31
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°	366.2	366.2	366.2	366.2	366.2	366.2	366.2	366.2	366.2
2.5°	363.7	363.7	364.7	365.7	366.8	366.8	367.2	367.7	367.2
5°	366.8	366.8	368.2	368.7	368.7	368.2	368.7	368.7	368.7
7.5°	371.2	370.2	370.7	369.7	368.7	368.2	367.7	367.7	367.7
10°	372.6	371.6	370.7	368.7	366.2	364.7	364.3	364.7	364.7
12.5°	374.7	373.7	371.2	367.2	364.3	361.8	361.2	362.2	362.2
15°	377.2	376.2	372.2	365.7	361.2	358.8	359.3	360.3	361.2
17.5°	377.2	375.1	368.7	360.3	354.9	352.4	354.3	356.8	358.3
20°	371.2	369.2	360.3	349.9	343.4	341.9	345.3	349.9	351.3
22.5°	363.2	359.3	348.9	336.4	329.5	329.5	334.5	339.9	341.9
25°	350.8	347.8	335.9	321.5	314.6	314.1	320.1	327.6	329.5
27.5°	337.0	333.0	320.1	305.2	297.8	298.2	304.7	312.1	314.1
30°	317.1	312.1	300.7	286.3	279.4	281.3	287.8	293.2	295.7
32.5°	294.8	290.3	279.9	266.5	260.5	262.5	268.0	272.9	274.9
35°	271.5	266.5	257.5	245.6	241.7	243.6	248.6	252.5	253.6
37.5°	245.2	241.7	235.2	225.8	222.9	225.2	229.2	231.7	232.7
40°	220.8	217.9	212.4	205.4	204.4	206.4	210.4	211.9	212.4
42.5°	197.0	194.5	191.0	186.0	186.0	188.1	191.6	192.5	193.1
45°	174.1	172.7	171.2	167.2	168.3	170.7	172.7	174.1	174.1
47.5°	154.3	154.8	152.8	149.9	150.8	153.3	154.8	156.4	156.4
50°	138.9	137.4	135.5	132.4	134.0	136.0	138.0	138.9	139.5
52.5°	121.1	120.6	119.1	115.6	116.6	117.6	119.6	121.1	121.6
55°	108.2	106.7	104.7	100.7	100.7	101.7	102.8	103.7	104.7
57.5°	95.7	94.3	91.3	86.8	86.3	86.3	85.9	86.8	88.4
60°	83.4	82.8	78.4	74.4	73.0	71.5	69.5	70.0	71.9
62.5°	72.4	71.5	67.5	62.5	59.6	57.1	54.6	54.0	56.1
65°	62.5	61.5	57.1	52.1	48.6	44.2	40.2	40.2	41.7
67.5°	53.6	51.6	47.6	42.1	37.7	32.3	28.3	29.2	29.8
70°	44.6	43.2	38.7	33.2	27.8	22.3	19.8	20.4	20.4
72.5°	36.7	34.8	30.3	24.8	19.4	14.4	13.4	12.9	12.9
75°	28.8	26.9	22.3	16.9	11.9	8.4	7.5	7.5	7.5
77.5°	20.8	19.4	15.4	10.4	6.5	4.0	3.5	2.9	2.9
80°	14.4	12.9	9.4	5.4	2.5	1.5	1.5	1.5	1.5
82.5°	8.4	6.9	4.4	2.5	1.0	0.5	0.5	0.5	0.5
85°	4.0	2.9	2.0	1.0	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



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

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