

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: P583394

Luminaire Tested: **HCC6S07D010BZ-HM60525935-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583394  
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: HCC6S07D010BZ-HM60525935-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

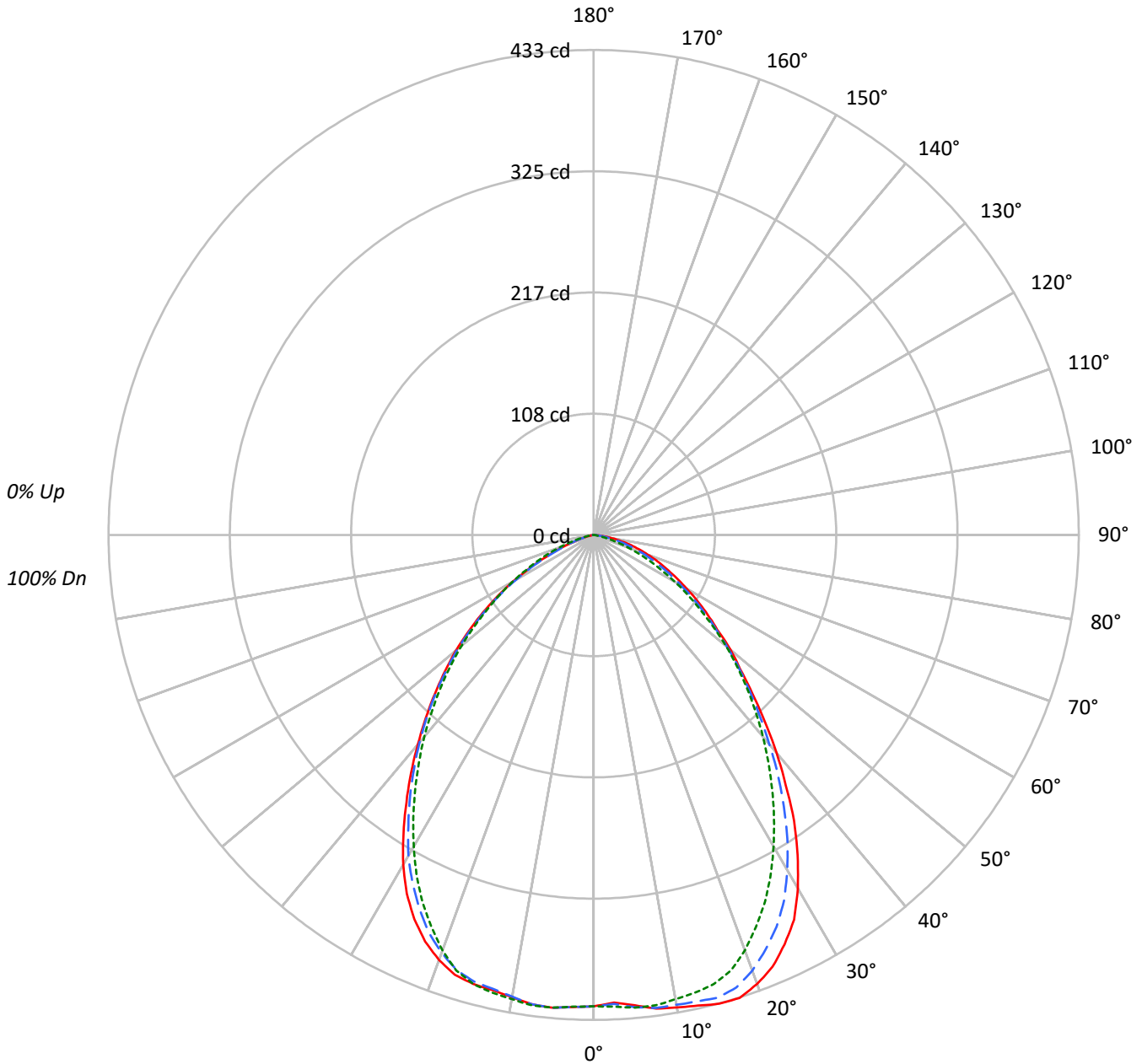
Lumens per Lamp: N/A  
Luminaire Lumens: 849.7 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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									
RC	80									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°	23074	23074	23074
5°	23195	23316	23316
10°	23842	23430	23335
15°	24597	23559	23559
20°	24887	23020	23557
25°	24389	21866	22901
30°	23067	20326	21516
35°	20873	18585	19501
40°	18163	16817	17461
45°	15521	14986	15521
50°	13611	13134	13663
55°	11880	11068	11498
60°	10515	9188	9067
65°	9314	7251	6213
70°	8223	5129	3735
75°	7011	2902	1822
80°	5209	884	537
85°	2830	377	377



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.4	4.8
10°-20°	118.1	13.9
20°-30°	172.5	20.3
30°-40°	180.9	21.3
40°-50°	152.4	17.9
50°-60°	106.8	12.6
60°-70°	57.3	6.7
70°-80°	19.2	2.3
80°-90°	2.1	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°	331.0	39.0
0°-40°	511.9	60.2
0°-60°	771.1	90.8
0°-90°	849.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	849.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	421	421	421	421	421	
5°	422	423	424	424	424	41
15°	433	428	415	413	415	122
25°	403	386	362	368	379	185
35°	312	296	278	286	291	194
45°	200	197	193	198	200	156
55°	124	120	116	118	120	112
65°	72	66	56	46	48	72
75°	33	26	14	9	9	35
85°	4	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°	420.9	420.9	420.9	420.9	420.9	420.9	420.9	420.9	420.9
2.5°	418.0	418.0	419.2	420.3	421.5	421.5	422.0	422.6	422.0
5°	421.5	421.5	423.2	423.7	423.7	423.2	423.7	423.7	423.7
7.5°	426.6	425.4	426.0	424.9	423.7	423.2	422.6	422.6	422.6
10°	428.3	427.1	426.0	423.7	420.9	419.2	418.6	419.2	419.2
12.5°	430.5	429.4	426.6	422.0	418.6	415.7	415.1	416.3	416.3
15°	433.4	432.2	427.7	420.3	415.1	412.3	412.9	414.0	415.1
17.5°	433.4	431.1	423.7	414.0	407.8	404.9	407.2	410.0	411.7
20°	426.6	424.3	414.0	402.1	394.6	392.9	396.9	402.1	403.8
22.5°	417.4	412.9	400.9	386.7	378.6	378.6	384.4	390.7	392.9
25°	403.2	399.7	386.1	369.6	361.5	361.0	367.9	376.4	378.6
27.5°	387.3	382.6	367.9	350.8	342.2	342.7	350.2	358.7	361.0
30°	364.4	358.7	345.6	329.0	321.1	323.4	330.7	337.1	339.9
32.5°	338.8	333.7	321.7	306.2	299.5	301.7	307.9	313.6	316.0
35°	311.9	306.2	295.9	282.3	277.7	280.0	285.7	290.3	291.4
37.5°	281.8	277.7	270.3	259.5	256.1	258.9	263.4	266.4	267.5
40°	253.8	250.4	244.0	236.1	235.0	237.3	241.8	243.5	244.0
42.5°	226.4	223.5	219.6	213.9	213.9	216.2	220.1	221.3	221.8
45°	200.2	198.5	196.8	192.2	193.3	196.1	198.5	200.2	200.2
47.5°	177.3	177.9	175.6	172.2	173.3	176.2	177.9	179.7	179.7
50°	159.6	157.9	155.7	152.3	154.0	156.2	158.5	159.6	160.2
52.5°	139.1	138.6	136.9	132.9	134.0	135.2	137.4	139.1	139.7
55°	124.3	122.6	120.3	115.8	115.8	116.9	118.1	119.2	120.3
57.5°	110.0	108.3	104.9	99.8	99.3	99.3	98.7	99.8	101.5
60°	95.9	95.3	90.1	85.5	83.8	82.1	79.9	80.4	82.7
62.5°	83.3	82.1	77.6	71.8	68.4	65.6	62.8	62.2	64.5
65°	71.8	70.7	65.6	59.9	55.9	50.8	46.2	46.2	47.9
67.5°	61.6	59.3	54.7	48.5	43.4	37.0	32.5	33.7	34.2
70°	51.3	49.6	44.5	38.2	32.0	25.7	22.8	23.3	23.3
72.5°	42.1	39.9	34.8	28.6	22.2	16.5	15.4	14.8	14.8
75°	33.1	30.8	25.7	19.4	13.7	9.7	8.6	8.6	8.6
77.5°	23.9	22.2	17.7	12.0	7.4	4.5	4.0	3.4	3.4
80°	16.5	14.8	10.9	6.2	2.8	1.7	1.7	1.7	1.7
82.5°	9.7	7.9	5.1	2.8	1.1	0.6	0.6	0.6	0.6
85°	4.5	3.4	2.3	1.1	0.6	0.6	0.6	0.6	0.6
87.5°	0.6	0.6	0.6	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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