

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: P583383

Luminaire Tested: **HC607D010-HM60525930-61WWBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583383  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC607D010-HM60525930-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 686.3 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

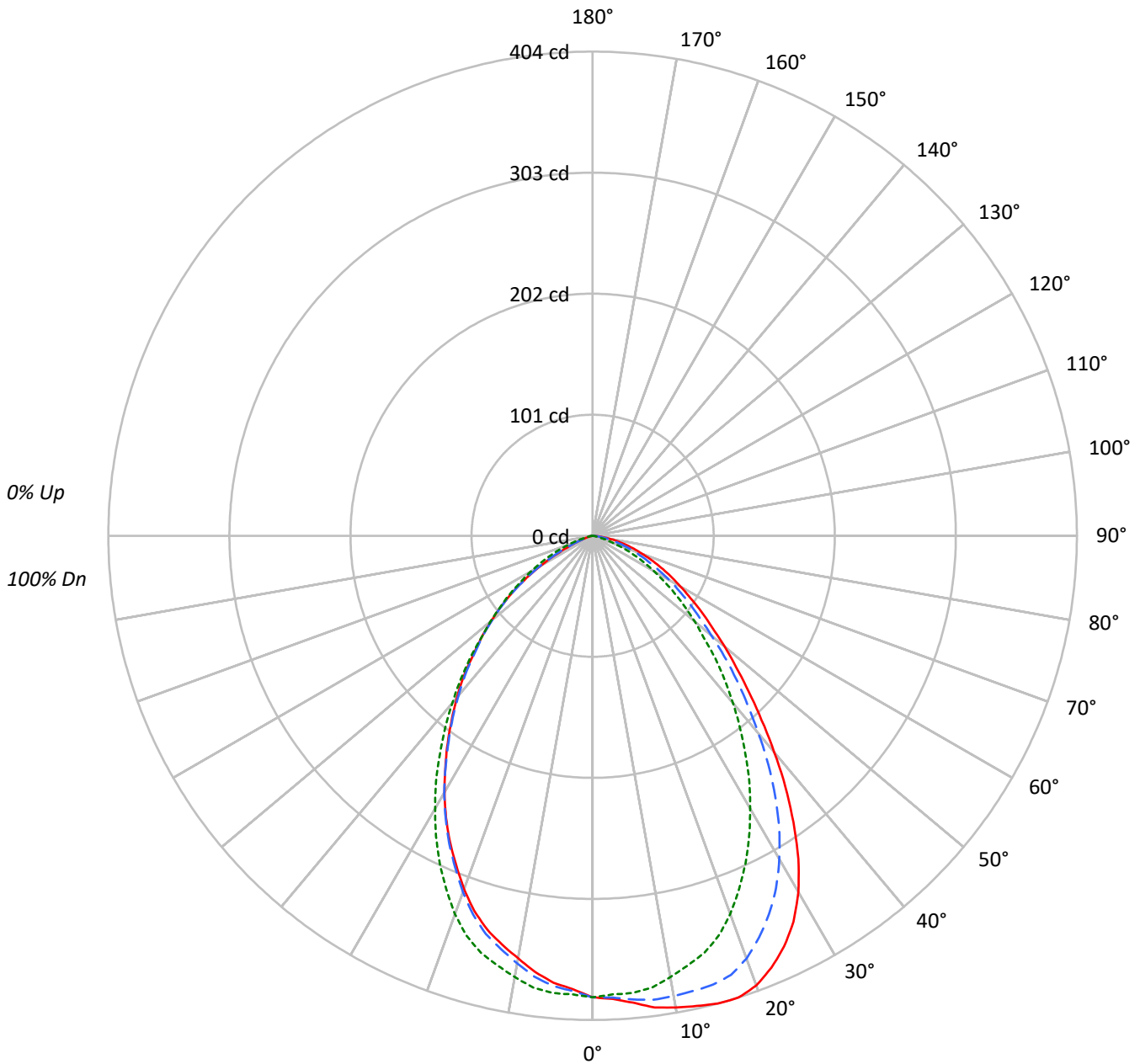
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100	100
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89	89	89	89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78	78	78	78
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69	69	69	69
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61	61	61	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54	54	54	54
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49	49	49	49
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44	44	44	44
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40	40	40	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37	37	37	37
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34	34	34	34

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

	0°	90°	180°
0°	21111	21111	21111
5°	21522	21076	20598
10°	22250	20808	19928
15°	22934	20443	19302
20°	23295	19590	18295
25°	22870	18249	17039
30°	21738	16629	15635
35°	19542	14864	14101
40°	16867	13024	12602
45°	14281	11218	10916
50°	12247	9467	9381
55°	10609	7971	7665
60°	9265	6469	5471
65°	8159	4981	3022
70°	7020	3302	1475
75°	5973	1610	572
80°	4609	695	347
85°	2705	377	377



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.3	5.3
10°-20°	102.8	15.0
20°-30°	144.7	21.1
30°-40°	147.9	21.5
40°-50°	119.2	17.4
50°-60°	80.0	11.7
60°-70°	40.5	5.9
70°-80°	12.9	1.9
80°-90°	2.0	0.3
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°	283.9	41.4
0°-40°	431.7	62.9
0°-60°	630.9	91.9
0°-90°	686.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	686.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	385	385	385	385	385	
5°	391	388	383	377	374	38
15°	404	388	360	344	340	114
25°	378	348	302	283	282	173
35°	292	266	222	210	211	182
45°	184	170	145	140	141	143
55°	111	99	83	80	80	100
65°	63	52	38	26	23	63
75°	28	20	8	3	3	30
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°	385.1	385.1	385.1	385.1	385.1	385.1	385.1	385.1	385.1
2.5°	386.8	386.2	385.7	384.5	383.0	381.4	380.2	379.2	378.6
5°	391.1	390.0	388.4	386.2	383.0	379.2	377.1	374.8	374.3
7.5°	397.0	394.9	390.5	385.7	380.2	374.8	371.1	368.9	367.2
10°	399.7	396.0	390.0	381.9	373.8	367.2	362.3	359.2	358.0
12.5°	401.9	397.6	389.0	378.1	367.2	358.6	353.2	350.4	349.4
15°	404.1	399.7	387.8	373.8	360.2	349.9	344.0	341.3	340.1
17.5°	404.1	398.1	384.1	366.2	349.9	337.5	331.5	328.8	328.2
20°	399.3	392.7	375.4	354.3	335.8	321.8	316.3	314.7	313.6
22.5°	390.0	382.4	362.9	339.1	319.1	305.5	299.6	298.4	297.4
25°	378.1	370.5	348.3	322.8	301.7	288.1	283.2	282.2	281.7
27.5°	362.9	354.9	331.5	305.5	282.8	269.8	265.5	265.5	264.9
30°	343.4	334.2	311.5	285.5	262.7	250.8	247.6	247.6	247.0
32.5°	319.6	310.3	289.8	264.9	243.3	230.8	228.1	229.1	228.6
35°	292.0	284.4	265.5	241.1	222.1	210.7	209.6	210.7	210.7
37.5°	264.3	257.3	241.1	219.9	202.0	191.7	191.7	193.4	192.8
40°	235.7	230.2	215.0	196.6	182.0	174.9	173.9	175.5	176.1
42.5°	208.6	204.2	191.3	176.1	163.0	156.0	157.6	158.7	159.3
45°	184.2	179.8	169.5	153.9	144.7	139.7	139.7	141.4	140.8
47.5°	162.5	159.3	149.0	133.8	125.6	123.5	124.6	125.6	125.6
50°	143.6	138.7	128.9	117.0	111.0	108.3	109.4	110.0	110.0
52.5°	125.6	122.4	112.6	101.9	96.4	94.8	94.8	95.3	95.3
55°	111.0	107.3	98.6	87.8	83.4	81.2	79.6	79.1	80.2
57.5°	97.0	93.7	85.5	75.3	70.5	68.2	65.0	63.9	65.0
60°	84.5	81.8	73.6	63.9	59.0	54.7	50.9	48.7	49.9
62.5°	73.6	70.5	62.3	54.2	48.7	43.8	38.0	34.7	36.3
65°	62.9	60.2	52.0	43.8	38.4	32.5	25.5	23.3	23.3
67.5°	53.1	50.4	42.8	35.8	29.2	22.2	15.7	15.2	15.7
70°	43.8	41.1	34.7	27.6	20.6	13.6	9.2	9.2	9.2
72.5°	36.3	33.1	27.1	20.1	13.0	7.0	4.9	5.4	5.4
75°	28.2	25.5	20.1	13.6	7.6	3.3	2.7	2.7	2.7
77.5°	21.1	18.9	14.0	8.6	3.7	1.1	1.1	1.1	1.1
80°	14.6	12.5	9.2	5.4	2.2	1.1	1.1	1.1	1.1
82.5°	8.6	7.6	5.4	2.7	1.1	0.6	0.6	0.6	0.6
85°	4.3	3.7	2.2	1.1	0.6	0.6	0.6	0.6	0.6
87.5°	1.1	1.1	0.6	0.6	0.0	0.6	0.6	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







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







(END OF REPORT)