

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: P581775

Luminaire Tested: **HC615D010-HM60525927-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581775  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC615D010-HM60525927-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1251.8 lumens  
Efficiency: N/A  
Efficacy: 89.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

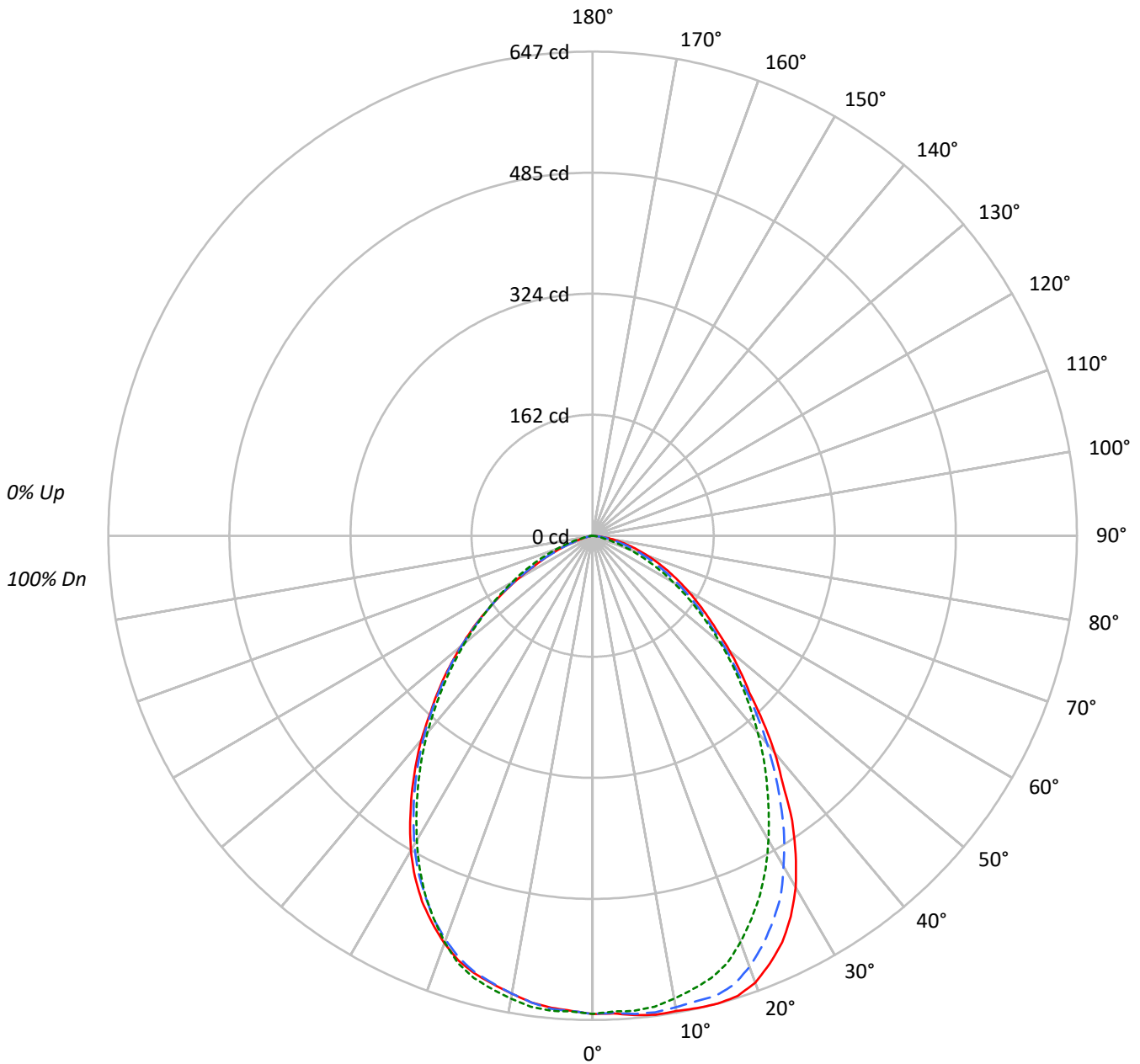
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88				
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77				77				
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67				67				
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59				
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53				
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47				47				
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42				42				
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38				38				
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35				35				
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				32				

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

	0°	90°	180°
0°	35025	35025	35025
5°	35384	35065	34834
10°	35888	34958	34585
15°	36731	34733	34404
20°	37074	33702	33801
25°	36262	32004	32615
30°	34341	29732	30745
35°	31099	27177	28188
40°	27079	24567	25462
45°	22971	21746	22529
50°	20349	18993	19496
55°	17921	16248	16162
60°	16062	13672	12576
65°	14334	10974	9015
70°	12614	7918	5642
75°	10654	4787	3198
80°	8208	2115	1326
85°	4717	503	503



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.6	4.8
10°-20°	174.3	13.9
20°-30°	251.9	20.1
30°-40°	265.1	21.2
40°-50°	222.9	17.8
50°-60°	156.4	12.5
60°-70°	86.0	6.9
70°-80°	30.6	2.4
80°-90°	4.0	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°	486.9	38.9
0°-40°	751.9	60.1
0°-60°	1131.2	90.4
0°-90°	1251.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1251.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	639	639	639	639	639	
5°	643	641	637	635	633	61
15°	647	636	612	604	606	183
25°	600	569	529	530	539	274
35°	465	438	406	414	421	288
45°	296	288	280	287	291	233
55°	188	178	170	170	169	169
65°	110	99	85	70	70	110
75°	50	40	23	15	15	54
85°	8	4	1	1	1	10
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°	638.9	638.9	638.9	638.9	638.9	638.9	638.9	638.9	638.9
2.5°	638.9	638.9	638.0	638.0	636.3	636.3	635.5	635.5	635.5
5°	643.0	643.0	641.4	638.9	637.2	634.7	634.7	633.8	633.0
7.5°	645.6	644.7	642.2	638.9	634.7	630.5	628.8	629.6	628.8
10°	644.7	643.0	639.7	633.0	628.0	622.1	621.3	620.4	621.3
12.5°	646.4	643.9	637.2	628.8	620.4	613.7	612.9	612.9	613.7
15°	647.2	644.7	636.3	623.8	612.0	605.3	604.5	605.3	606.2
17.5°	644.7	641.4	628.8	612.0	598.6	591.9	591.9	593.6	595.3
20°	635.5	630.5	612.9	592.8	577.7	572.7	574.4	577.7	579.4
22.5°	618.8	612.9	592.8	570.2	554.2	550.1	554.2	558.4	560.1
25°	599.5	592.8	569.3	545.9	529.1	524.1	530.0	536.7	539.2
27.5°	573.5	566.0	544.2	517.4	500.6	498.2	504.8	512.5	514.0
30°	542.5	534.1	510.0	484.8	469.7	468.9	476.4	483.1	485.7
32.5°	504.8	497.4	476.4	451.3	437.9	437.9	445.4	451.3	453.8
35°	464.7	456.3	437.9	417.0	406.1	406.9	414.5	418.6	421.2
37.5°	417.0	414.5	400.2	382.6	375.1	376.8	382.6	386.0	388.5
40°	378.4	371.7	362.5	348.3	343.3	344.9	350.8	354.1	355.8
42.5°	336.6	332.4	324.8	314.8	311.4	313.9	319.0	321.5	320.6
45°	296.3	295.6	288.1	282.2	280.5	283.9	287.2	289.7	290.6
47.5°	267.1	263.8	257.1	252.9	251.2	254.6	257.9	259.6	259.6
50°	238.6	235.3	228.6	224.4	222.7	226.1	228.6	230.3	228.6
52.5°	210.2	206.8	200.9	195.9	195.1	196.8	197.6	198.4	200.1
55°	187.5	184.2	177.5	171.6	170.0	170.8	170.0	170.0	169.1
57.5°	165.8	162.4	155.7	149.0	146.5	145.7	143.1	142.3	141.5
60°	146.5	142.3	135.6	128.1	124.7	121.4	117.2	114.7	114.7
62.5°	128.1	123.9	116.3	109.6	104.6	98.7	92.0	88.8	88.8
65°	110.5	107.1	98.7	91.3	84.6	77.1	69.5	67.9	69.5
67.5°	93.8	90.5	82.1	74.6	66.2	57.0	50.3	50.3	51.9
70°	78.7	75.4	67.9	58.6	49.4	40.2	35.2	35.2	35.2
72.5°	64.5	61.2	52.8	44.4	35.2	26.0	23.5	24.3	23.5
75°	50.3	47.7	40.2	31.0	22.6	15.9	15.1	14.2	15.1
77.5°	37.7	35.2	28.5	20.1	12.6	9.2	8.4	8.4	8.4
80°	26.0	23.5	18.4	11.7	6.7	4.2	4.2	4.2	4.2
82.5°	15.9	13.4	10.1	5.9	2.5	2.5	2.5	2.5	2.5
85°	7.5	5.9	4.2	1.7	0.8	0.8	0.8	0.8	0.8
87.5°	1.7	1.7	0.8	0.8	0.0	0.8	0.8	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)