

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: P581810

Luminaire Tested: **HC615D010-HM60525935-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581810  
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: HC615D010-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  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1433.8 lumens  
Efficiency: N/A  
Efficacy: 102.4 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

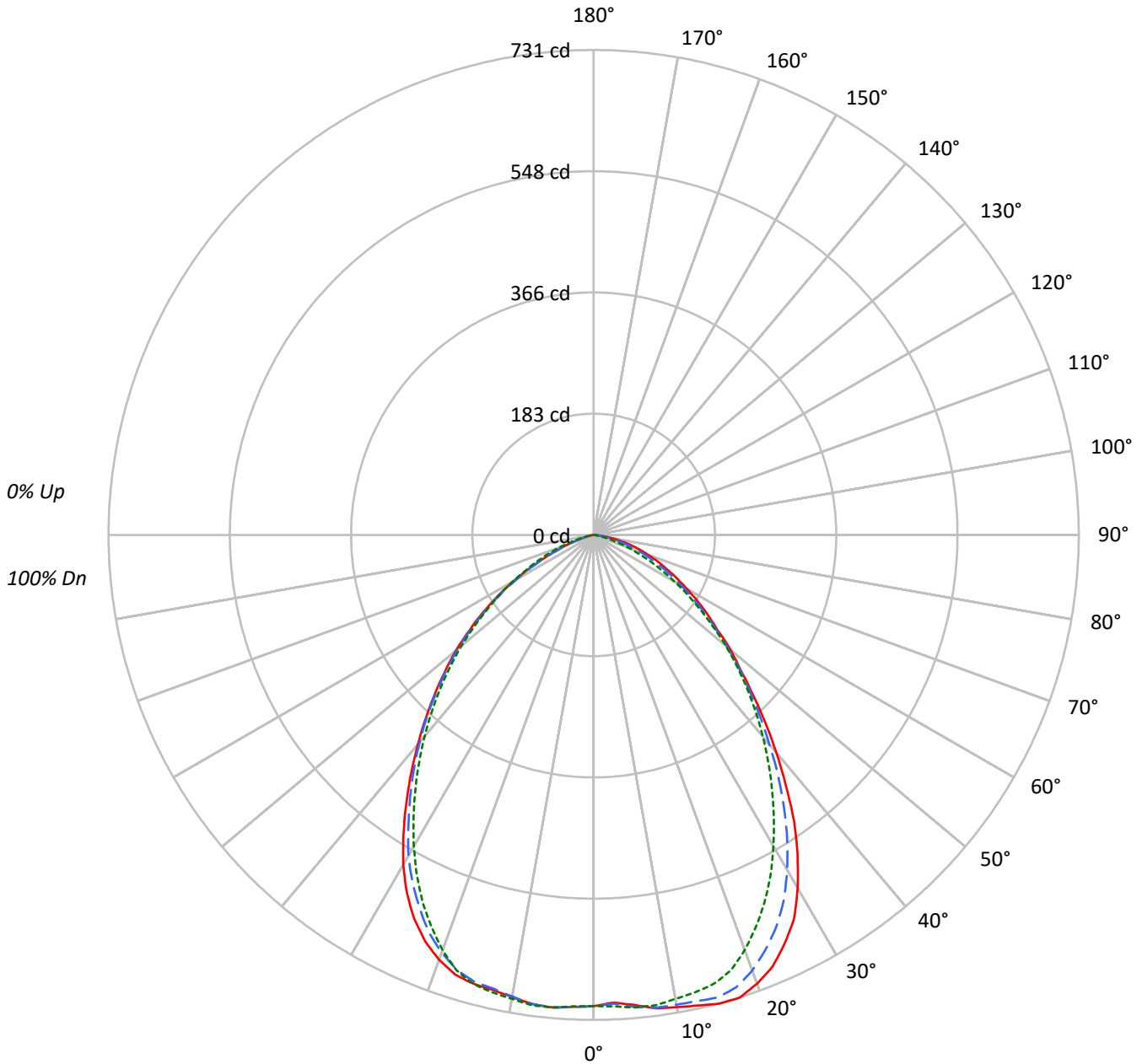
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
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°	38933	38933	38933
5°	39137	39346	39346
10°	40230	39534	39372
15°	41510	39756	39756
20°	41992	38848	39746
25°	41150	36903	38651
30°	38924	34290	36303
35°	35228	31360	32913
40°	30643	28375	29477
45°	26189	25289	26189
50°	22976	22157	23070
55°	20042	18666	19411
60°	17718	15503	15295
65°	15722	12232	10481
70°	13881	8639	6331
75°	11819	4872	3050
80°	8808	1515	884
85°	4843	566	566



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.1	4.8
10°-20°	199.3	13.9
20°-30°	291.1	20.3
30°-40°	305.3	21.3
40°-50°	257.2	17.9
50°-60°	180.2	12.6
60°-70°	96.6	6.7
70°-80°	32.4	2.3
80°-90°	3.5	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°	558.6	39.0
0°-40°	863.9	60.3
0°-60°	1301.3	90.8
0°-90°	1433.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1433.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	710	710	710	710	710	
5°	711	714	715	715	715	68
15°	731	722	700	697	700	206
25°	680	652	610	621	639	312
35°	526	499	469	482	492	327
45°	338	332	326	335	338	263
55°	210	203	195	199	203	189
65°	121	111	94	78	81	121
75°	56	43	23	14	14	59
85°	8	4	1	1	1	11
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°	710.2	710.2	710.2	710.2	710.2	710.2	710.2	710.2	710.2
2.5°	705.4	705.4	707.3	709.3	711.2	711.2	712.1	713.1	712.1
5°	711.2	711.2	714.0	715.0	715.0	714.0	715.0	715.0	715.0
7.5°	719.8	717.9	718.9	717.0	715.0	714.0	713.1	713.1	713.1
10°	722.7	720.8	718.9	715.0	710.2	707.3	706.3	707.3	707.3
12.5°	726.5	724.6	719.8	712.1	706.3	701.5	700.5	702.5	702.5
15°	731.4	729.5	721.7	709.3	700.5	695.8	696.8	698.7	700.5
17.5°	731.4	727.5	715.0	698.7	688.0	683.3	687.1	691.9	694.8
20°	719.8	716.0	698.7	678.4	665.9	663.1	669.8	678.4	681.3
22.5°	704.4	696.8	676.6	652.5	639.0	639.0	648.7	659.2	663.1
25°	680.3	674.6	651.5	623.6	610.1	609.2	620.7	635.1	639.0
27.5°	653.4	645.7	620.7	591.8	577.4	578.4	590.9	605.3	609.2
30°	614.9	605.3	583.2	555.2	541.7	545.6	558.2	568.7	573.5
32.5°	571.6	563.0	542.8	516.8	505.2	509.0	519.6	529.3	533.1
35°	526.4	516.8	499.4	476.4	468.6	472.5	482.1	489.9	491.8
37.5°	475.3	468.6	456.2	437.9	432.1	436.9	444.6	449.5	451.4
40°	428.2	422.4	411.9	398.4	396.5	400.3	408.0	410.9	411.9
42.5°	382.0	377.3	370.5	360.9	360.9	364.7	371.5	373.4	374.3
45°	337.8	334.9	332.0	324.3	326.2	331.1	334.9	337.8	337.8
47.5°	299.3	300.2	296.3	290.7	292.6	297.4	300.2	303.2	303.2
50°	269.4	266.6	262.8	257.0	259.8	263.7	267.5	269.4	270.5
52.5°	234.8	233.8	231.0	224.3	226.1	228.0	231.9	234.8	235.7
55°	209.7	206.9	203.1	195.3	195.3	197.3	199.2	201.1	203.1
57.5°	185.7	182.8	177.1	168.4	167.4	167.4	166.5	168.4	171.3
60°	161.6	160.7	152.1	144.4	141.4	138.6	134.7	135.6	139.5
62.5°	140.5	138.6	130.9	121.2	115.4	110.7	105.9	104.9	108.7
65°	121.2	119.3	110.7	101.0	94.3	85.7	78.0	78.0	80.8
67.5°	104.0	100.1	92.4	81.8	73.1	62.5	54.8	56.8	57.8
70°	86.6	83.8	75.0	64.5	53.9	43.4	38.5	39.5	39.5
72.5°	71.2	67.4	58.7	48.1	37.6	27.9	26.0	25.0	25.0
75°	55.8	52.0	43.4	32.7	23.0	16.3	14.4	14.4	14.4
77.5°	40.4	37.6	29.9	20.2	12.5	7.7	6.7	5.8	5.8
80°	27.9	25.0	18.3	10.6	4.8	2.8	2.8	2.8	2.8
82.5°	16.3	13.5	8.6	4.8	1.9	0.9	0.9	0.9	0.9
85°	7.7	5.8	3.9	1.9	0.9	0.9	0.9	0.9	0.9
87.5°	0.9	0.9	0.9	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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— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)