

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: P581781

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581781  
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: HC615D010-HM60525927-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1060.9 lumens  
Efficiency: N/A  
Efficacy: 75.8 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

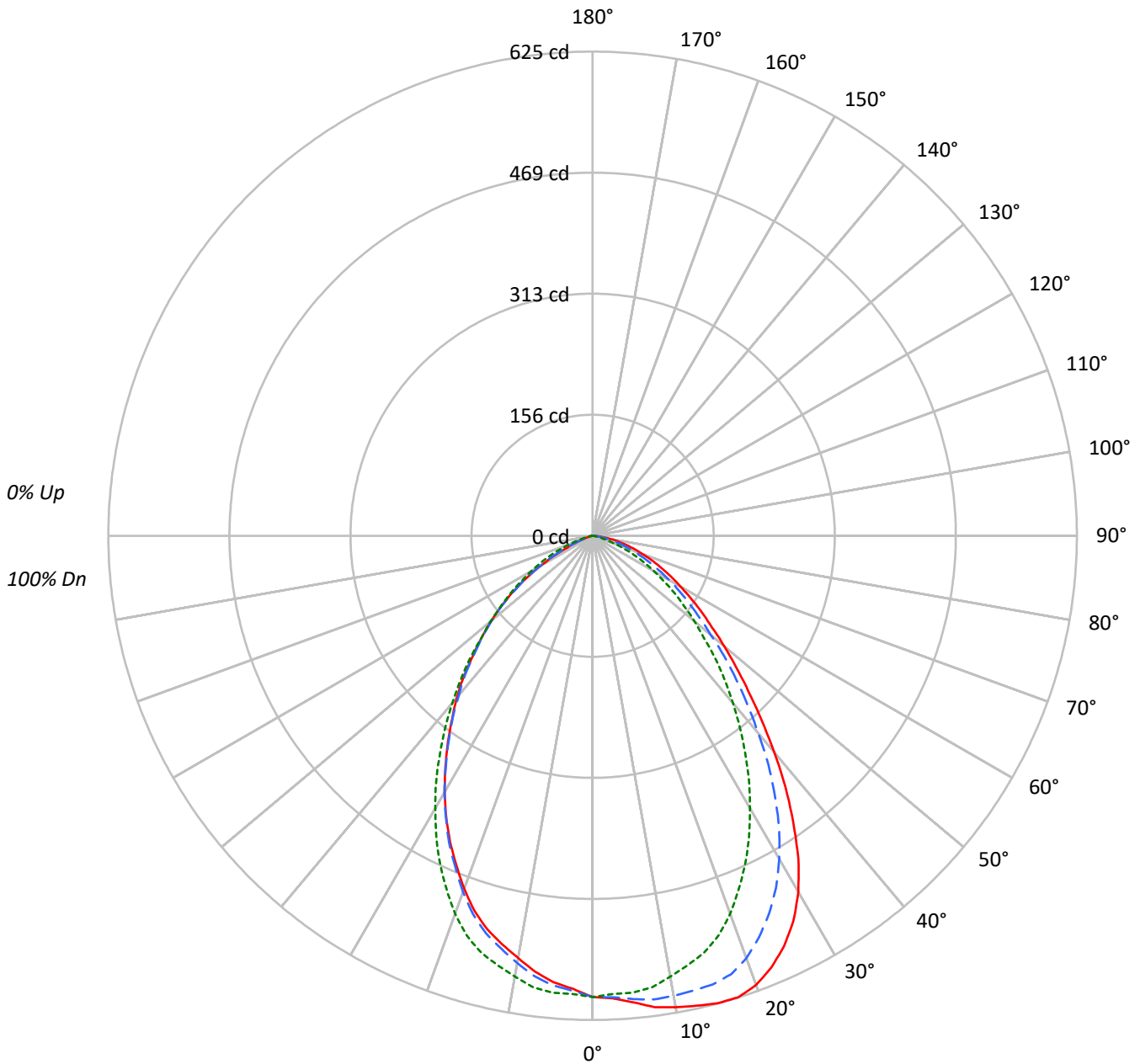
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	90°	180°
0°	32634	32634	32634
5°	33265	32578	31840
10°	34396	32158	30805
15°	35449	31601	29841
20°	36001	30283	28282
25°	35349	28211	26336
30°	33600	25706	24168
35°	30202	22975	21797
40°	26063	20138	19479
45°	22072	17335	16878
50°	18925	14635	14498
55°	16401	12320	11842
60°	14319	10010	8453
65°	12608	7718	4670
70°	10883	5097	2276
75°	9235	2478	890
80°	7135	1073	537
85°	4214	503	503



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.2	5.3
10°-20°	158.9	15.0
20°-30°	223.7	21.1
30°-40°	228.6	21.5
40°-50°	184.3	17.4
50°-60°	123.6	11.6
60°-70°	62.6	5.9
70°-80°	20.0	1.9
80°-90°	3.1	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°	438.8	41.4
0°-40°	667.4	62.9
0°-60°	975.3	91.9
0°-90°	1060.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1060.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	595	595	595	595	595	
5°	604	600	592	583	579	58
15°	625	600	557	532	526	176
25°	584	538	466	438	435	268
35°	451	410	343	324	326	281
45°	285	262	224	216	218	221
55°	172	152	129	123	124	154
65°	97	80	60	39	36	97
75°	44	31	12	4	4	47
85°	7	3	1	1	1	9
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°	595.3	595.3	595.3	595.3	595.3	595.3	595.3	595.3	595.3
2.5°	597.8	597.0	596.2	594.5	592.0	589.5	587.8	586.1	585.3
5°	604.5	602.9	600.3	597.0	592.0	586.1	582.7	579.4	578.6
7.5°	613.7	610.4	603.7	596.2	587.8	579.4	573.5	570.2	567.7
10°	617.9	612.1	602.9	590.3	577.7	567.7	560.1	555.1	553.4
12.5°	621.3	614.6	601.2	584.4	567.7	554.3	545.9	541.7	540.0
15°	624.6	617.9	599.5	577.7	556.8	540.9	531.6	527.5	525.8
17.5°	624.6	615.4	593.6	566.0	540.9	521.6	512.5	508.3	507.5
20°	617.1	607.0	580.2	547.6	519.1	497.4	489.0	486.5	484.8
22.5°	602.9	591.1	561.0	524.1	493.2	472.3	463.1	461.4	459.7
25°	584.4	572.7	538.4	499.1	466.4	445.5	437.9	436.2	435.4
27.5°	561.0	548.4	512.5	472.3	437.1	417.0	410.3	410.3	409.4
30°	530.8	516.7	481.5	441.3	406.1	387.7	382.6	382.6	381.8
32.5°	494.1	479.8	448.0	409.4	375.9	356.7	352.5	354.2	353.3
35°	451.3	439.6	410.3	372.6	343.3	325.7	324.0	325.7	325.7
37.5°	408.6	397.7	372.6	339.9	312.4	296.5	296.5	299.0	298.1
40°	364.2	355.8	332.4	304.0	281.4	270.5	268.8	271.3	272.2
42.5°	322.3	315.6	295.6	272.2	252.1	241.2	243.7	245.4	246.2
45°	284.7	278.0	262.1	237.8	223.6	216.0	216.0	218.5	217.7
47.5°	251.2	246.2	230.3	206.8	194.2	190.9	192.6	194.2	194.2
50°	221.9	214.4	199.3	180.8	171.6	167.4	169.1	170.0	170.0
52.5°	194.2	189.2	174.1	157.4	149.0	146.5	146.5	147.3	147.3
55°	171.6	165.8	152.4	135.6	128.9	125.6	123.0	122.2	123.9
57.5°	149.9	144.8	132.3	116.3	108.8	105.6	100.4	98.9	100.4
60°	130.6	126.4	113.8	98.9	91.3	84.6	78.7	75.4	77.1
62.5°	113.8	108.8	96.2	83.8	75.4	67.9	58.6	53.6	56.1
65°	97.2	93.0	80.4	67.9	59.5	50.3	39.4	36.0	36.0
67.5°	82.1	77.9	66.2	55.3	45.2	34.3	24.3	23.5	24.3
70°	67.9	63.7	53.6	42.7	31.8	20.9	14.2	14.2	14.2
72.5°	56.1	51.1	41.9	31.0	20.1	10.9	7.5	8.4	8.4
75°	43.6	39.4	31.0	20.9	11.7	5.0	4.2	4.2	4.2
77.5°	32.7	29.3	21.8	13.4	5.9	1.7	1.7	1.7	1.7
80°	22.6	19.3	14.2	8.4	3.4	1.7	1.7	1.7	1.7
82.5°	13.4	11.7	8.4	4.2	1.7	0.8	0.8	0.8	0.8
85°	6.7	5.9	3.4	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)