

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: P581783

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581783  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC615D010-HM60525927-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1199.9 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

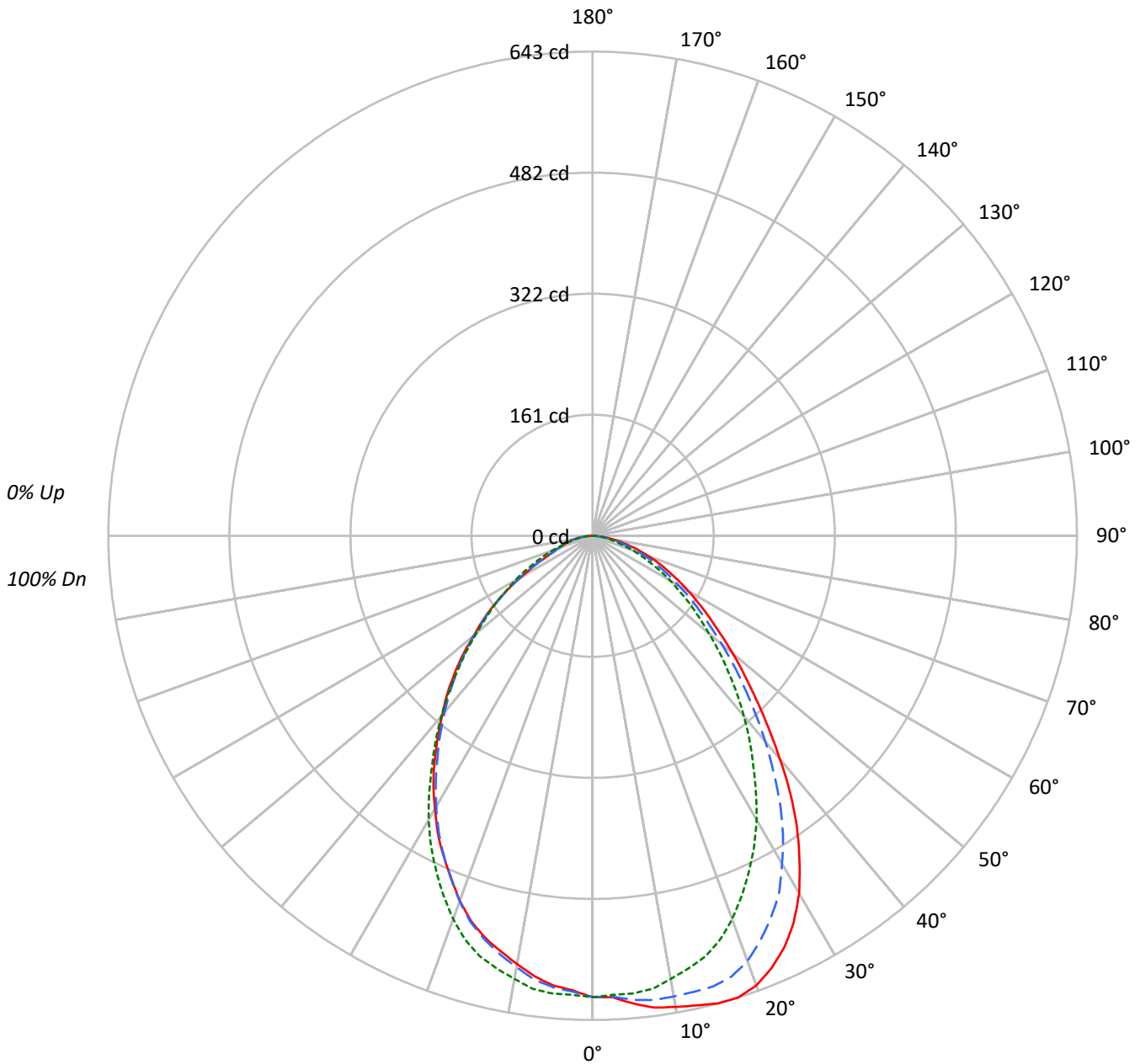
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76				76				
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66				66				
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58				58				
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52				52				
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46				46				
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42				42				
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38				38				
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34				34				
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31				31				

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

	0°	90°	180°
0°	33588	33588	33588
5°	34316	33579	32979
10°	35365	33266	32147
15°	36487	32827	31351
20°	37062	31590	30079
25°	36456	29717	28356
30°	34702	27555	26491
35°	31655	24869	24480
40°	27673	22342	22220
45°	23809	19669	20118
50°	20707	17134	17492
55°	18083	15034	15197
60°	16062	13025	11929
65°	14321	10974	9119
70°	12614	8992	7646
75°	10823	7096	7265
80°	8713	6093	7135
85°	5787	5284	6290



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.0	4.8
10°-20°	165.1	13.8
20°-30°	235.8	19.6
30°-40°	246.9	20.6
40°-50°	207.9	17.3
50°-60°	148.0	12.3
60°-70°	86.6	7.2
70°-80°	41.0	3.4
80°-90°	10.5	0.9
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°	458.9	38.2
0°-40°	705.9	58.8
0°-60°	1061.7	88.5
0°-90°	1199.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1199.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	613	613	613	613	613	
5°	624	619	610	602	599	60
15°	643	619	578	555	552	181
25°	603	560	491	468	469	276
35°	473	434	372	359	366	294
45°	307	284	254	254	260	238
55°	189	173	157	157	159	171
65°	110	98	85	71	70	110
75°	51	43	34	33	34	55
85°	9	8	8	10	10	12
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°	612.7	612.7	612.7	612.7	612.7	612.7	612.7	612.7	612.7
2.5°	613.6	613.6	612.7	611.9	610.2	607.7	606.0	604.3	604.3
5°	623.6	621.9	618.6	614.4	610.2	605.2	601.8	599.3	599.3
7.5°	632.0	628.6	621.9	614.4	606.9	600.2	594.3	590.9	590.1
10°	635.3	631.1	621.1	609.4	597.6	588.4	581.7	577.5	577.5
12.5°	638.7	633.7	620.3	603.5	588.4	575.9	569.2	565.8	565.0
15°	642.9	636.2	619.4	598.5	578.4	564.1	554.9	552.4	552.4
17.5°	642.9	634.5	613.6	587.6	562.5	546.6	538.2	535.7	536.5
20°	635.3	626.1	601.0	569.2	541.5	524.8	516.4	514.7	515.6
22.5°	621.1	610.2	581.7	547.4	517.3	499.7	492.1	492.1	491.3
25°	602.7	590.9	560.0	524.0	491.3	473.7	467.8	468.8	468.8
27.5°	578.4	566.7	535.7	497.2	464.6	447.0	442.8	444.5	445.3
30°	548.2	535.7	503.0	465.4	435.3	417.7	415.2	417.7	418.5
32.5°	511.4	502.2	470.5	431.9	403.5	388.4	387.5	390.1	393.4
35°	473.0	462.9	433.6	398.4	371.6	359.1	359.1	363.3	365.8
37.5°	431.1	421.0	394.2	364.9	342.3	330.6	332.3	336.5	337.3
40°	386.7	379.2	356.6	331.4	312.2	303.0	305.5	309.7	310.5
42.5°	344.8	338.1	319.7	297.1	283.0	276.3	279.6	284.5	286.2
45°	307.1	299.6	284.5	265.4	253.7	250.3	254.5	257.8	259.5
47.5°	272.9	266.2	253.7	236.1	227.7	226.0	230.2	231.9	233.6
50°	242.8	236.1	223.5	207.6	200.9	200.9	204.2	205.9	205.1
52.5°	213.5	207.6	195.9	182.5	178.3	178.3	180.8	181.6	183.3
55°	189.2	183.3	173.3	160.7	157.3	155.7	157.3	157.3	159.0
57.5°	166.6	161.5	152.3	140.6	136.4	134.7	133.9	133.1	134.7
60°	146.5	142.3	132.2	122.2	118.8	114.6	111.3	107.9	108.8
62.5°	128.0	123.8	114.6	104.6	101.2	95.5	91.3	87.1	88.8
65°	110.4	106.3	98.0	89.6	84.6	77.9	71.2	68.7	70.3
67.5°	94.5	91.3	82.9	74.5	70.3	62.8	56.1	56.1	56.9
70°	78.7	75.4	68.7	61.1	56.1	49.4	46.9	47.7	47.7
72.5°	64.5	62.0	55.3	48.6	43.5	39.4	39.4	40.2	41.0
75°	51.1	49.4	42.7	36.8	33.5	31.0	32.7	33.5	34.3
77.5°	39.4	36.8	31.8	27.6	25.1	26.0	27.6	28.5	29.3
80°	27.6	26.8	22.6	20.1	19.3	20.1	21.8	22.6	22.6
82.5°	17.6	16.7	14.2	13.4	13.4	14.2	15.9	15.9	15.9
85°	9.2	8.4	7.5	7.5	8.4	9.2	10.0	10.0	10.0
87.5°	3.3	2.5	3.3	3.3	4.2	4.2	4.2	4.2	4.2
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)