

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: P581702

Luminaire Tested: **HC615D010-HM60525827-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581702  
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-HM60525827-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1477.3 lumens  
Efficiency: N/A  
Efficacy: 105.5 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

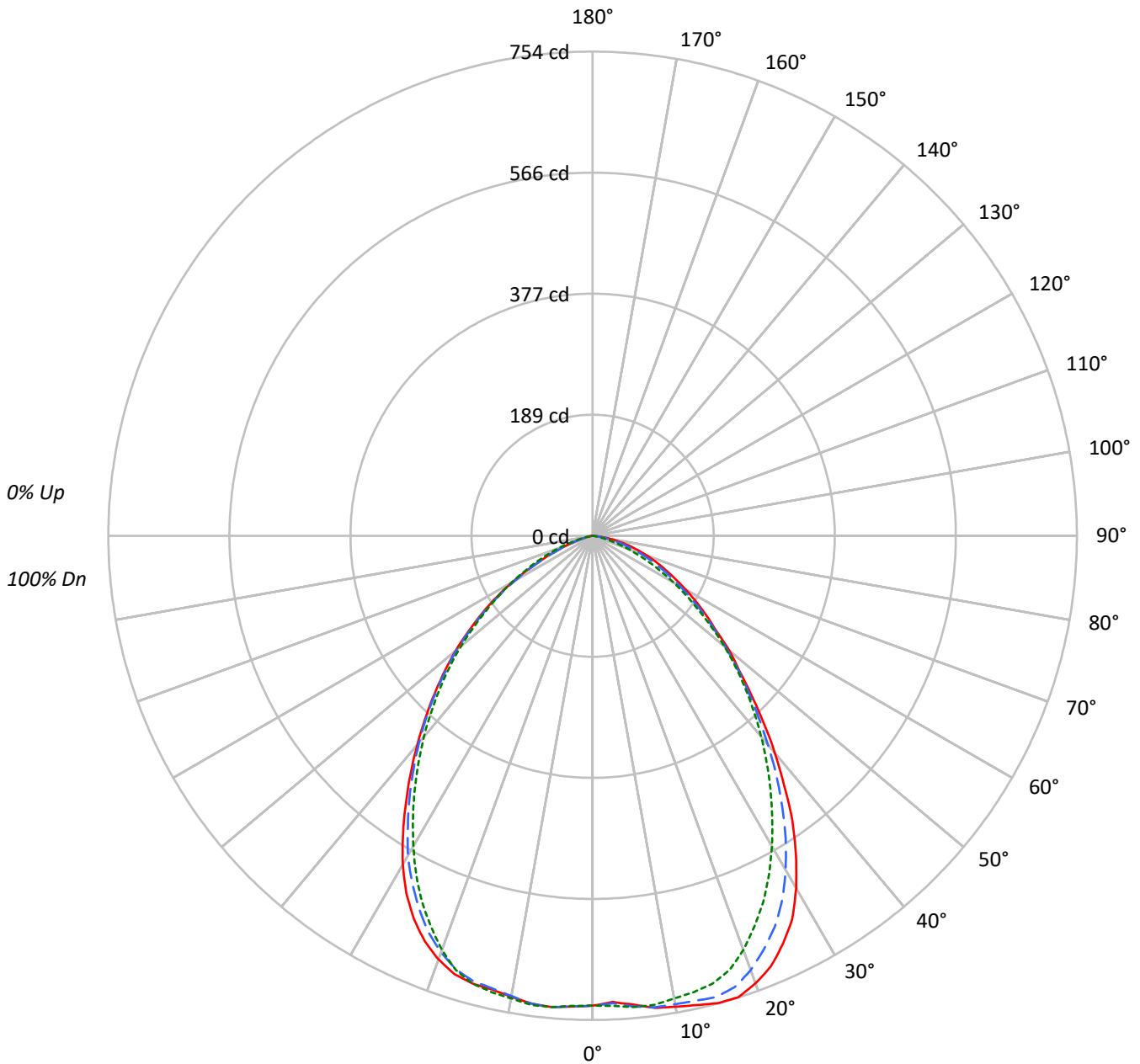
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				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	94	92	90	88				88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77				77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68				68
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60				60
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	62	55	50	60	54	49	58	53	49	47				47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	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°	40112	40112	40112
5°	40326	40540	40540
10°	41454	40731	40569
15°	42764	40971	40971
20°	43264	40026	40954
25°	42402	38022	39825
30°	40107	35335	37411
35°	36292	32310	33910
40°	31573	29233	30371
45°	26980	26057	26980
50°	23675	22831	23760
55°	20654	19230	19995
60°	18266	15975	15766
65°	16214	12608	10805
70°	14297	8896	6508
75°	12179	5041	3156
80°	9060	1578	947
85°	4969	629	629



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.2	4.8
10°-20°	205.4	13.9
20°-30°	299.9	20.3
30°-40°	314.6	21.3
40°-50°	265.0	17.9
50°-60°	185.7	12.6
60°-70°	99.6	6.7
70°-80°	33.4	2.3
80°-90°	3.6	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°	575.5	39.0
0°-40°	890.1	60.2
0°-60°	1340.7	90.8
0°-90°	1477.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1477.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	732	732	732	732	732	
5°	733	736	737	737	737	70
15°	754	744	722	718	722	213
25°	701	671	629	640	658	321
35°	542	515	483	497	507	337
45°	348	342	336	345	348	271
55°	216	209	201	205	209	195
65°	125	114	97	80	83	125
75°	58	45	24	15	15	61
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°	731.7	731.7	731.7	731.7	731.7	731.7	731.7	731.7	731.7
2.5°	726.7	726.7	728.8	730.7	732.8	732.8	733.7	734.7	733.7
5°	732.8	732.8	735.7	736.7	736.7	735.7	736.7	736.7	736.7
7.5°	741.6	739.7	740.7	738.7	736.7	735.7	734.7	734.7	734.7
10°	744.7	742.6	740.7	736.7	731.7	728.8	727.8	728.8	728.8
12.5°	748.6	746.6	741.6	733.7	727.8	722.8	721.9	723.8	723.8
15°	753.5	751.6	743.7	730.7	721.9	716.9	717.9	719.8	721.9
17.5°	753.5	749.6	736.7	719.8	708.9	703.9	707.9	712.9	715.8
20°	741.6	737.6	719.8	699.0	686.1	683.2	690.1	699.0	702.0
22.5°	725.8	717.9	697.0	672.3	658.4	658.4	668.3	679.2	683.2
25°	701.0	695.1	671.2	642.5	628.6	627.7	639.6	654.4	658.4
27.5°	673.3	665.3	639.6	609.8	594.9	595.9	608.8	623.7	627.7
30°	633.6	623.7	600.9	572.2	558.2	562.2	575.1	586.0	591.0
32.5°	589.0	580.0	559.2	532.4	520.5	524.5	535.4	545.4	549.3
35°	542.3	532.4	514.6	490.8	482.8	486.8	496.8	504.7	506.7
37.5°	489.8	482.8	470.0	451.2	445.1	450.1	458.1	463.1	465.0
40°	441.2	435.3	424.4	410.5	408.5	412.5	420.4	423.4	424.4
42.5°	393.6	388.6	381.7	371.8	371.8	375.8	382.7	384.7	385.7
45°	348.0	345.0	342.1	334.1	336.1	341.1	345.0	348.0	348.0
47.5°	308.4	309.4	305.4	299.4	301.5	306.3	309.4	312.4	312.4
50°	277.6	274.7	270.7	264.7	267.7	271.7	275.7	277.6	278.6
52.5°	242.0	241.0	238.0	231.0	233.0	234.9	238.9	242.0	242.9
55°	216.1	213.2	209.2	201.2	201.2	203.3	205.2	207.3	209.2
57.5°	191.4	188.4	182.4	173.5	172.5	172.5	171.5	173.5	176.5
60°	166.6	165.6	156.6	148.7	145.7	142.8	138.8	139.8	143.8
62.5°	144.7	142.8	134.8	125.0	118.9	114.1	109.1	108.1	112.0
65°	125.0	122.9	114.1	104.1	97.2	88.2	80.4	80.4	83.3
67.5°	107.0	103.2	95.2	84.3	75.4	64.5	56.5	58.5	59.5
70°	89.2	86.3	77.3	66.4	55.5	44.6	39.6	40.6	40.6
72.5°	73.3	69.5	60.5	49.6	38.7	28.7	26.8	25.8	25.8
75°	57.5	53.6	44.6	33.7	23.8	16.9	14.9	14.9	14.9
77.5°	41.7	38.7	30.8	20.8	12.9	7.9	6.9	5.9	5.9
80°	28.7	25.8	18.8	10.9	5.0	3.0	3.0	3.0	3.0
82.5°	16.9	13.8	9.0	5.0	1.9	1.0	1.0	1.0	1.0
85°	7.9	5.9	4.0	1.9	1.0	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	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)