

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: P581738

Luminaire Tested: **HC615D010-HM60525835-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581738
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-HM60525835-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1614.3 lumens
Efficiency: N/A
Efficacy: 115.3 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

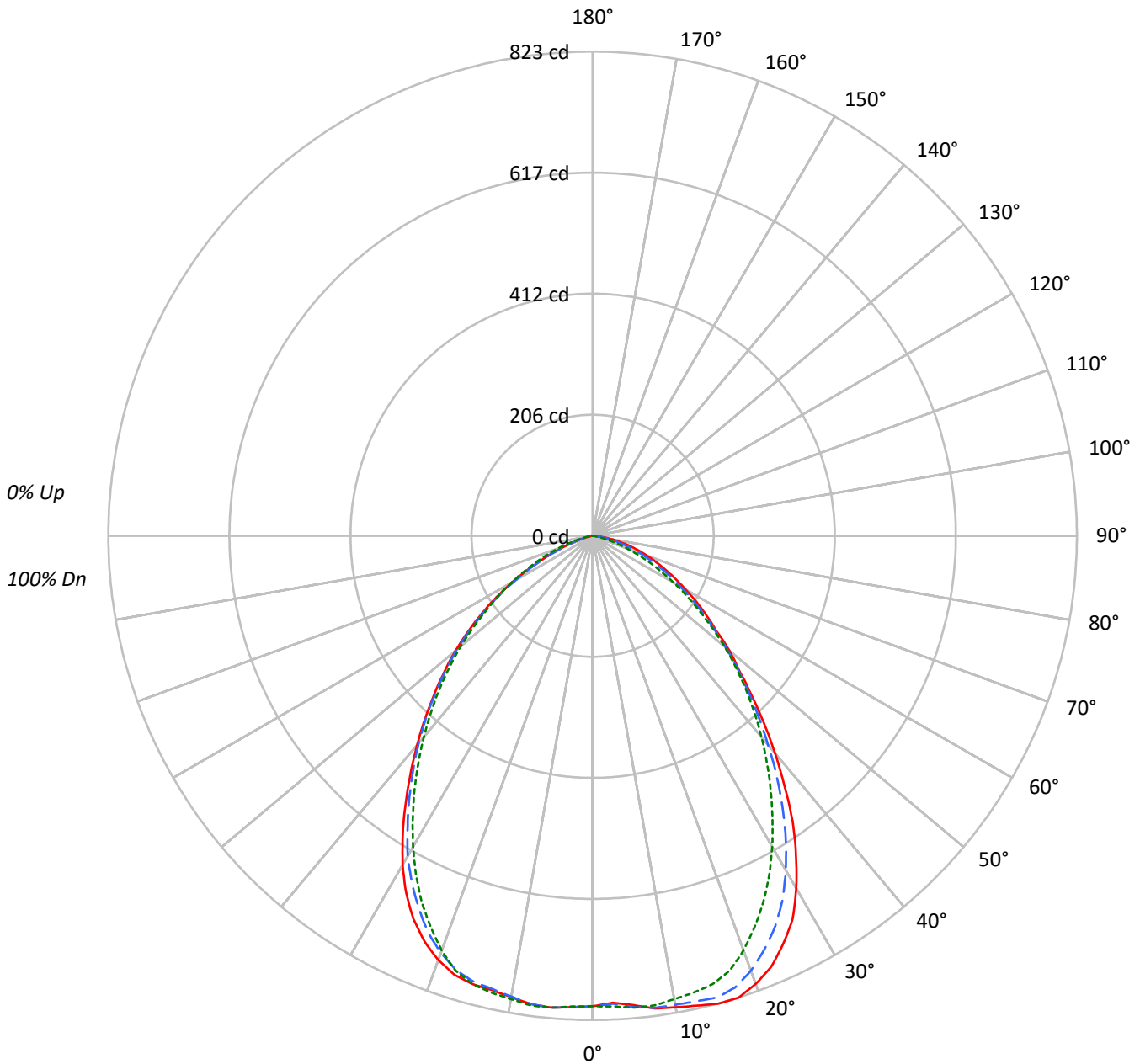
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
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								
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°	43834	43834	43834
5°	44062	44304	44304
10°	45295	44510	44327
15°	46731	44768	44768
20°	47283	43742	44751
25°	46333	41549	43521
30°	43830	38620	40880
35°	39665	35315	37055
40°	34500	31946	33191
45°	29484	28476	29484
50°	25875	24946	25961
55°	22575	21027	21849
60°	19966	17455	17224
65°	17706	13776	11804
70°	15628	9729	7117
75°	13323	5507	3431
80°	9913	1705	1042
85°	5409	692	692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.7	4.8
10°-20°	224.4	13.9
20°-30°	327.8	20.3
30°-40°	343.7	21.3
40°-50°	289.6	17.9
50°-60°	202.9	12.6
60°-70°	108.8	6.7
70°-80°	36.5	2.3
80°-90°	4.0	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°	628.9	39.0
0°-40°	972.6	60.2
0°-60°	1465.1	90.8
0°-90°	1614.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1614.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	800	800	800	800	800	
5°	801	804	805	805	805	77
15°	823	813	789	784	789	232
25°	766	734	687	699	720	351
35°	593	562	528	543	554	368
45°	380	374	367	377	380	296
55°	236	229	220	224	229	213
65°	136	125	106	88	91	136
75°	63	49	26	16	16	67
85°	9	4	1	1	1	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°	799.6	799.6	799.6	799.6	799.6	799.6	799.6	799.6	799.6
2.5°	794.2	794.2	796.3	798.6	800.7	800.7	801.8	802.9	801.8
5°	800.7	800.7	803.9	805.1	805.1	803.9	805.1	805.1	805.1
7.5°	810.5	808.2	809.4	807.2	805.1	803.9	802.9	802.9	802.9
10°	813.7	811.5	809.4	805.1	799.6	796.3	795.3	796.3	796.3
12.5°	818.0	815.8	810.5	801.8	795.3	789.8	788.8	791.0	791.0
15°	823.4	821.3	812.7	798.6	788.8	783.4	784.4	786.7	788.8
17.5°	823.4	819.1	805.1	786.7	774.8	769.3	773.6	779.1	782.2
20°	810.5	806.1	786.7	763.9	749.8	746.5	754.1	763.9	767.1
22.5°	793.1	784.4	761.7	734.6	719.5	719.5	730.3	742.2	746.5
25°	766.0	759.5	733.6	702.1	686.9	685.9	698.8	715.0	719.5
27.5°	735.7	727.1	698.8	666.4	650.1	651.1	665.2	681.6	685.9
30°	692.4	681.6	656.6	625.2	610.1	614.4	628.4	640.4	645.8
32.5°	643.5	633.9	611.1	581.8	568.9	573.2	585.1	595.9	600.3
35°	592.7	581.8	562.3	536.3	527.7	532.0	542.9	551.5	553.7
37.5°	535.3	527.7	513.6	493.0	486.5	491.9	500.5	506.0	508.1
40°	482.1	475.7	463.8	448.6	446.4	450.7	459.4	462.6	463.8
42.5°	430.2	424.7	417.1	406.3	406.3	410.6	418.2	420.4	421.4
45°	380.3	377.0	373.8	365.1	367.3	372.7	377.0	380.3	380.3
47.5°	337.0	338.0	333.7	327.2	329.4	334.8	338.0	341.3	341.3
50°	303.4	300.1	295.8	289.3	292.5	296.9	301.2	303.4	304.4
52.5°	264.3	263.3	260.0	252.4	254.6	256.7	261.2	264.3	265.5
55°	236.2	232.9	228.6	220.0	220.0	222.1	224.3	226.4	228.6
57.5°	209.1	205.9	199.4	189.7	188.5	188.5	187.4	189.7	192.8
60°	182.1	180.9	171.2	162.5	159.2	156.1	151.6	152.8	157.1
62.5°	158.2	156.1	147.3	136.5	130.1	124.6	119.2	118.2	122.5
65°	136.5	134.4	124.6	113.7	106.2	96.5	87.7	87.7	91.0
67.5°	117.0	112.7	104.0	92.0	82.4	70.5	61.7	63.9	65.0
70°	97.5	94.3	84.6	72.6	60.7	48.8	43.4	44.4	44.4
72.5°	80.1	75.8	66.1	54.1	42.2	31.4	29.3	28.1	28.1
75°	62.9	58.5	48.8	36.9	26.0	18.4	16.2	16.2	16.2
77.5°	45.5	42.2	33.6	22.7	14.1	8.6	7.6	6.5	6.5
80°	31.4	28.1	20.5	11.9	5.4	3.3	3.3	3.3	3.3
82.5°	18.4	15.2	9.8	5.4	2.2	1.1	1.1	1.1	1.1
85°	8.6	6.5	4.3	2.2	1.1	1.1	1.1	1.1	1.1
87.5°	1.1	1.1	1.1	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)