

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: P581765

Luminaire Tested: **HC615D010-HM60525840-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581765
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-HM60525840-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1602.6 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

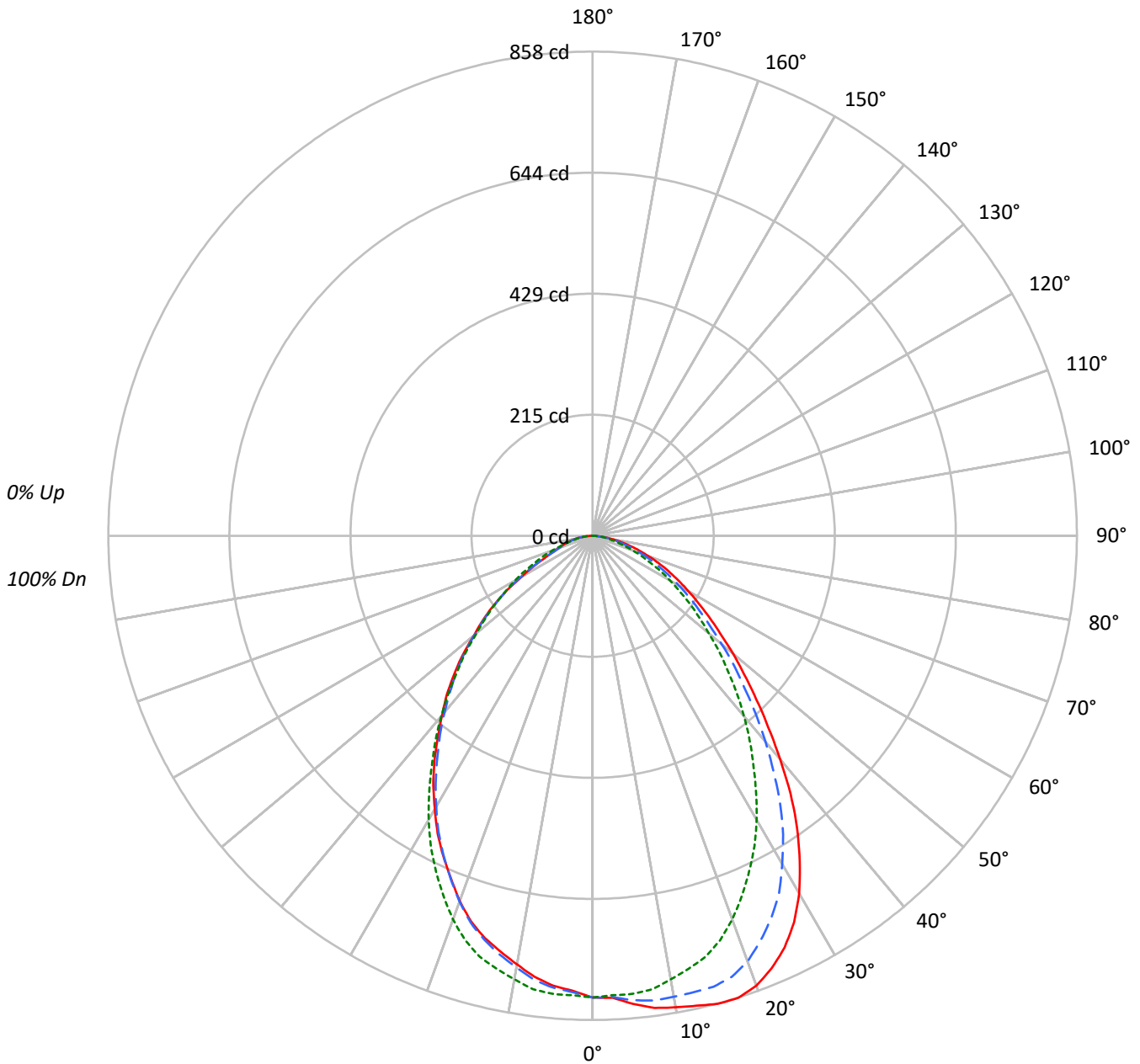
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87																			
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76																			
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66																			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58																			
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52																			
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46																			
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42																			
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38																			
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34																			
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	44859	44859	44859
5°	45834	44844	44046
10°	47232	44432	42935
15°	48723	43842	41879
20°	49500	42196	40172
25°	48686	39698	37871
30°	46349	36797	35385
35°	42269	33214	32692
40°	36955	29842	29677
45°	31810	26259	26863
50°	27649	22882	23360
55°	24152	20090	20300
60°	21457	17411	15931
65°	19146	14645	12180
70°	16846	12005	10210
75°	14445	9468	9722
80°	11649	8145	9534
85°	7737	6982	8428



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.5	4.8
10°-20°	220.6	13.8
20°-30°	314.9	19.6
30°-40°	329.8	20.6
40°-50°	277.7	17.3
50°-60°	197.6	12.3
60°-70°	115.7	7.2
70°-80°	54.7	3.4
80°-90°	14.1	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°	612.9	38.2
0°-40°	942.7	58.8
0°-60°	1418.1	88.5
0°-90°	1602.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1602.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	818	818	818	818	818	
5°	833	826	815	804	800	80
15°	858	827	772	741	738	242
25°	805	748	656	625	626	368
35°	632	579	496	480	488	392
45°	410	380	339	340	346	319
55°	253	231	210	210	212	228
65°	148	131	113	95	94	147
75°	68	57	45	44	46	73
85°	12	10	11	13	13	16
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°	818.3	818.3	818.3	818.3	818.3	818.3	818.3	818.3	818.3
2.5°	819.5	819.5	818.3	817.2	814.9	811.6	809.4	807.1	807.1
5°	832.9	830.6	826.2	820.6	814.9	808.2	803.8	800.4	800.4
7.5°	844.0	839.6	830.6	820.6	810.5	801.5	793.7	789.3	788.1
10°	848.5	843.0	829.5	813.8	798.2	785.9	776.9	771.3	771.3
12.5°	853.0	846.3	828.4	806.1	785.9	769.2	760.2	755.7	754.5
15°	858.5	849.7	827.3	799.3	772.5	753.5	741.2	737.9	737.9
17.5°	858.5	847.4	819.5	784.7	751.3	730.0	718.8	715.5	716.6
20°	848.5	836.2	802.7	760.2	723.3	701.0	689.7	687.5	688.6
22.5°	829.5	814.9	776.9	731.2	690.9	667.4	657.4	657.4	656.3
25°	804.9	789.3	747.9	699.8	656.3	632.8	624.9	626.1	626.1
27.5°	772.5	756.8	715.5	664.1	620.5	597.0	591.3	593.6	594.7
30°	732.2	715.5	671.9	621.5	581.3	557.9	554.4	557.9	559.0
32.5°	683.0	670.8	628.2	576.8	538.8	518.7	517.6	521.0	525.4
35°	631.6	618.2	579.1	532.1	496.3	479.5	479.5	485.2	488.5
37.5°	575.8	562.3	526.5	487.4	457.2	441.6	443.8	449.5	450.5
40°	516.4	506.4	476.2	442.6	417.0	404.7	408.0	413.6	414.7
42.5°	460.6	451.6	427.1	396.9	377.8	368.9	373.4	380.1	382.4
45°	410.3	400.2	380.1	354.3	338.7	334.3	339.8	344.4	346.5
47.5°	364.4	355.5	338.7	315.3	304.1	301.8	307.5	309.6	311.9
50°	324.2	315.3	298.5	277.3	268.3	268.3	272.7	275.0	273.9
52.5°	285.1	277.3	261.6	243.7	238.1	238.1	241.5	242.5	244.8
55°	252.7	244.8	231.4	214.6	210.2	207.9	210.2	210.2	212.4
57.5°	222.5	215.8	203.5	187.8	182.2	180.0	178.9	177.7	180.0
60°	195.7	190.0	176.6	163.2	158.8	153.1	148.7	144.3	145.3
62.5°	171.0	165.5	153.1	139.7	135.3	127.5	121.9	116.2	118.5
65°	147.6	142.0	130.8	119.6	112.9	104.0	95.0	91.7	93.9
67.5°	126.3	121.9	110.7	99.5	93.9	83.9	74.9	74.9	76.0
70°	105.1	100.6	91.7	81.6	74.9	65.9	62.7	63.7	63.7
72.5°	86.0	82.7	73.8	64.8	58.1	52.6	52.6	53.7	54.8
75°	68.2	65.9	57.0	49.1	44.7	41.3	43.6	44.7	45.9
77.5°	52.6	49.1	42.4	36.9	33.5	34.6	36.9	38.0	39.2
80°	36.9	35.8	30.2	26.8	25.8	26.8	29.1	30.2	30.2
82.5°	23.5	22.4	19.0	17.9	17.9	19.0	21.2	21.2	21.2
85°	12.3	11.1	10.1	10.1	11.1	12.3	13.4	13.4	13.4
87.5°	4.4	3.4	4.4	4.4	5.6	5.6	5.6	5.6	5.6
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)