

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: P581739

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC615D010-HM60525835-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1619.8 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

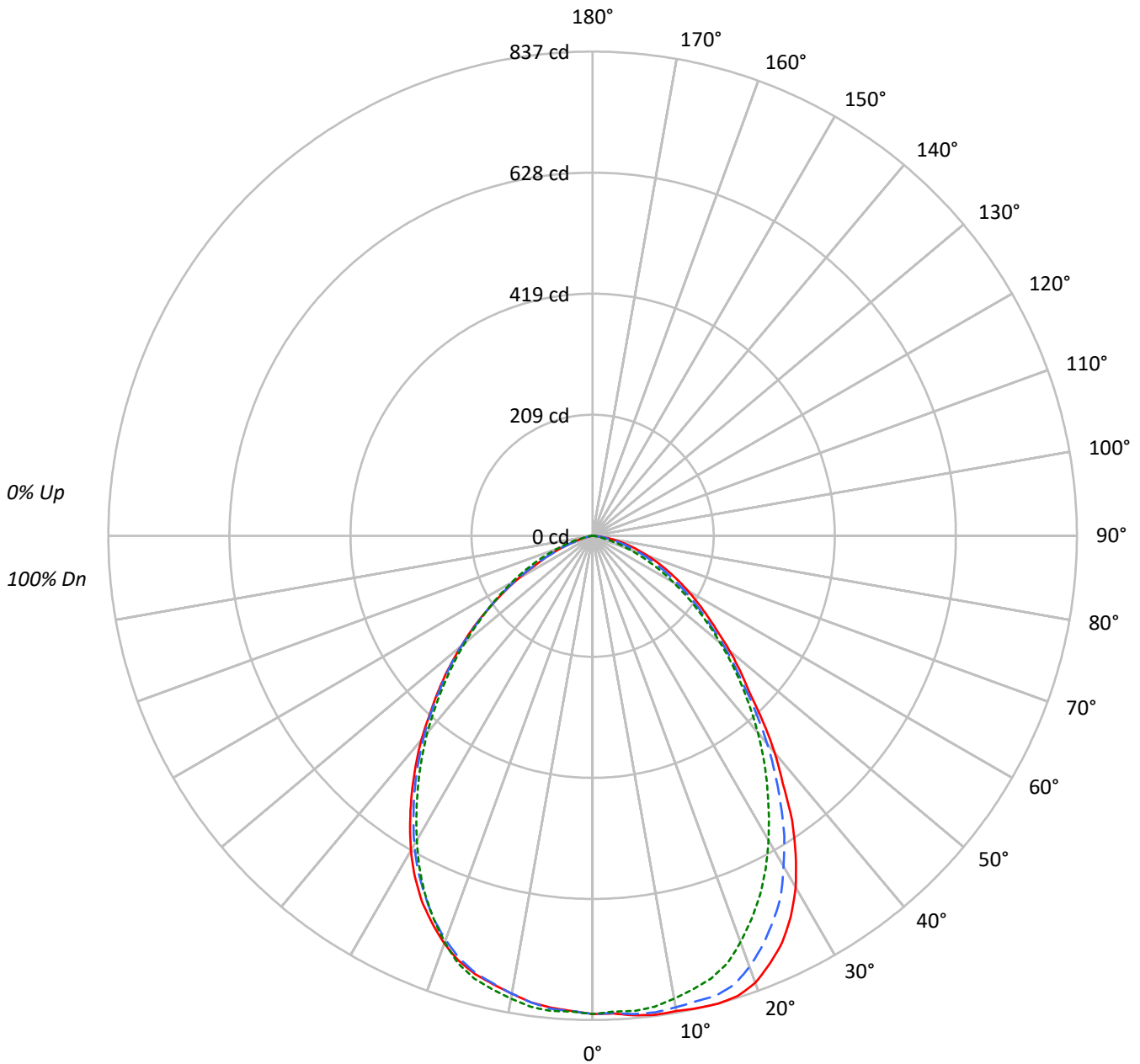
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77																			
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67																			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59																			
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	61	55	50	60	54	49	58	53	49	47																			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	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°	45314	45314	45314
5°	45790	45372	45069
10°	46436	45229	44750
15°	47526	44949	44518
20°	47972	43608	43736
25°	46920	41416	42202
30°	44437	38474	39772
35°	40241	35161	36466
40°	35037	31788	32955
45°	29732	28142	29143
50°	26327	24579	25227
55°	23196	21027	20912
60°	20777	17696	16282
65°	18549	14191	11661
70°	16317	10242	7293
75°	13768	6206	4130
80°	10607	2715	1705
85°	6164	692	692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	4.8
10°-20°	225.5	13.9
20°-30°	326.0	20.1
30°-40°	343.0	21.2
40°-50°	288.4	17.8
50°-60°	202.4	12.5
60°-70°	111.3	6.9
70°-80°	39.5	2.4
80°-90°	5.2	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°	630.0	38.9
0°-40°	973.0	60.1
0°-60°	1463.7	90.4
0°-90°	1619.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1619.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	827	827	827	827	827	
5°	832	830	824	821	819	80
15°	837	823	792	782	784	236
25°	776	737	685	686	698	355
35°	601	567	525	536	545	373
45°	384	373	363	372	376	301
55°	243	230	220	220	219	218
65°	143	128	109	90	90	142
75°	65	52	29	20	20	70
85°	10	5	1	1	1	13
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°	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6
2.5°	826.6	826.6	825.5	825.5	823.3	823.3	822.3	822.3	822.3
5°	832.1	832.1	829.9	826.6	824.5	821.2	821.2	820.2	819.0
7.5°	835.2	834.2	830.9	826.6	821.2	815.8	813.6	814.7	813.6
10°	834.2	832.1	827.8	819.0	812.5	804.9	803.9	802.8	803.9
12.5°	836.4	833.1	824.5	813.6	802.8	794.2	793.0	793.0	794.2
15°	837.4	834.2	823.3	807.1	792.0	783.3	782.2	783.3	784.4
17.5°	834.2	829.9	813.6	792.0	774.6	765.9	765.9	768.2	770.3
20°	822.3	815.8	793.0	767.0	747.5	741.0	743.2	747.5	749.7
22.5°	800.6	793.0	767.0	737.8	717.2	711.8	717.2	722.7	724.8
25°	775.7	767.0	736.7	706.3	684.7	678.2	685.8	694.4	697.7
27.5°	742.1	732.4	704.2	669.5	647.9	644.6	653.3	663.1	665.2
30°	702.0	691.2	659.8	627.3	607.8	606.7	616.4	625.2	628.3
32.5°	653.3	643.5	616.4	584.0	566.6	566.6	576.4	584.0	587.2
35°	601.3	590.4	566.6	539.6	525.4	526.5	536.3	541.7	544.9
37.5°	539.6	536.3	517.9	495.1	485.3	487.5	495.1	499.4	502.7
40°	489.6	481.0	469.1	450.7	444.2	446.4	453.9	458.3	460.5
42.5°	435.5	430.1	420.4	407.4	403.0	406.2	412.8	416.0	415.0
45°	383.5	382.4	372.7	365.1	363.0	367.3	371.6	374.9	375.9
47.5°	345.6	341.3	332.6	327.2	325.1	329.4	333.7	335.8	335.8
50°	308.7	304.4	295.8	290.3	288.2	292.5	295.8	297.9	295.8
52.5°	271.9	267.6	260.0	253.6	252.4	254.6	255.7	256.7	258.9
55°	242.7	238.4	229.7	222.1	220.0	221.0	220.0	220.0	218.8
57.5°	214.5	210.2	201.5	192.8	189.5	188.5	185.2	184.2	183.1
60°	189.5	184.2	175.5	165.7	161.4	157.1	151.6	148.5	148.5
62.5°	165.7	160.4	150.6	141.9	135.4	127.8	119.2	114.9	114.9
65°	143.0	138.7	127.8	118.0	109.4	99.7	89.9	87.7	89.9
67.5°	121.3	117.0	106.1	96.5	85.6	73.7	65.0	65.0	67.2
70°	101.8	97.5	87.7	75.8	63.9	52.0	45.5	45.5	45.5
72.5°	83.4	79.1	68.2	57.4	45.5	33.6	30.3	31.4	30.3
75°	65.0	61.7	52.0	40.1	29.3	20.5	19.5	18.4	19.5
77.5°	48.8	45.5	36.9	26.0	16.2	11.9	10.8	10.8	10.8
80°	33.6	30.3	23.8	15.2	8.6	5.4	5.4	5.4	5.4
82.5°	20.5	17.4	13.1	7.6	3.3	3.3	3.3	3.3	3.3
85°	9.8	7.6	5.4	2.2	1.1	1.1	1.1	1.1	1.1
87.5°	2.2	2.2	1.1	1.1	0.0	1.1	1.1	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)