

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: P593122

Luminaire Tested: **HC615D010-HM60525950-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC615D010-HM60525950-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1348.5 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

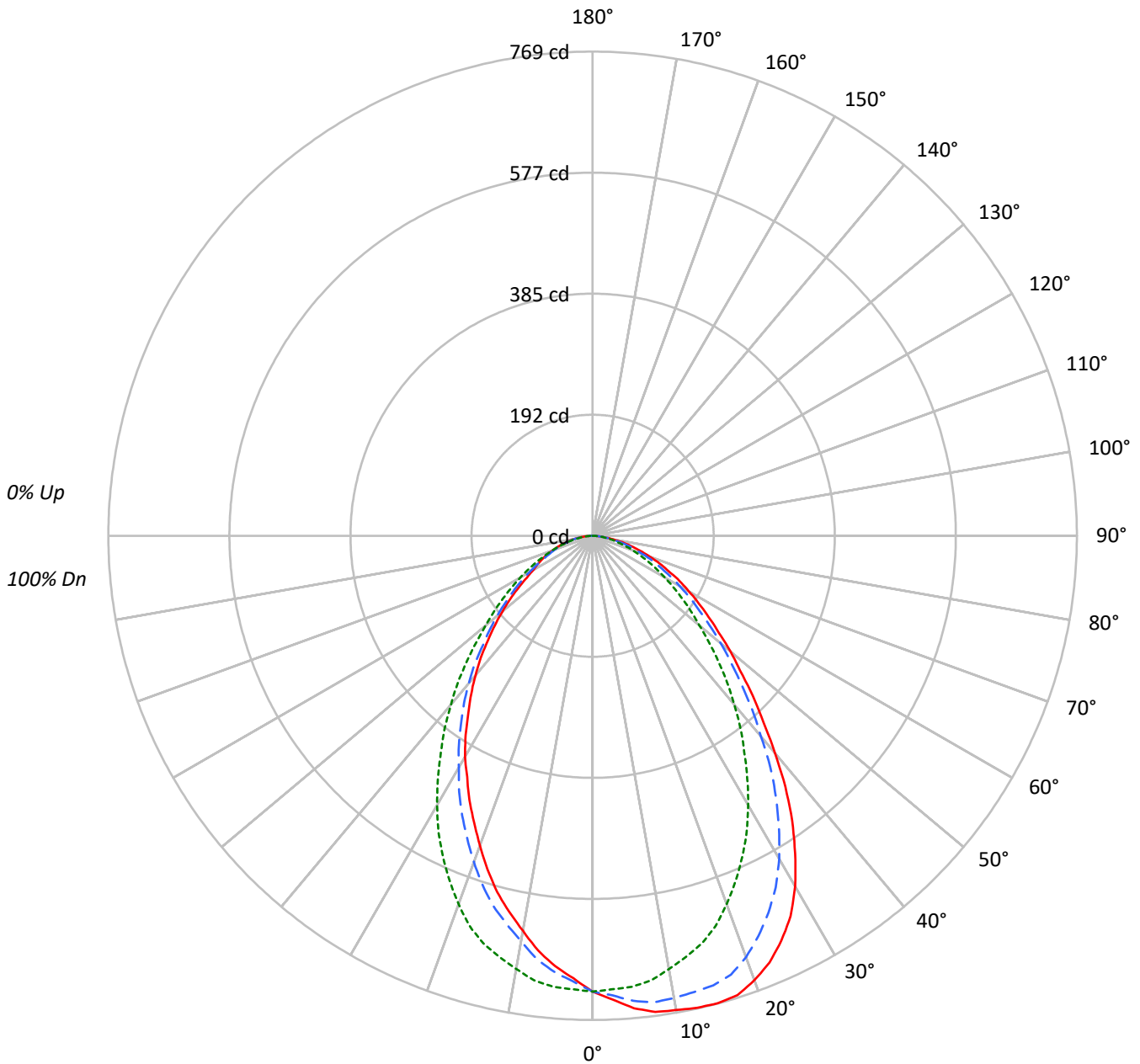
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87																			
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76																			
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66																			
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58																			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51																			
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	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	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	39684	39684	39684
5°	41448	39566	37745
10°	42579	38888	35470
15°	43627	38042	33229
20°	43818	36316	30523
25°	42904	34006	27988
30°	40709	31271	25656
35°	36968	28108	23015
40°	32210	25033	20710
45°	27879	21901	18203
50°	24349	18865	15948
55°	21514	16573	13686
60°	19341	14527	11863
65°	17317	12634	11493
70°	15467	10771	10771
75°	13408	9087	10124
80°	10734	7703	9250
85°	7359	6730	7988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.0	5.0
10°-20°	189.1	14.0
20°-30°	263.6	19.5
30°-40°	271.6	20.1
40°-50°	225.1	16.7
50°-60°	161.7	12.0
60°-70°	103.0	7.6
70°-80°	52.9	3.9
80°-90°	13.5	1.0
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°	520.7	38.6
0°-40°	792.3	58.8
0°-60°	1179.1	87.4
0°-90°	1348.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1348.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	724	724	724	724	724	
5°	753	742	719	696	686	72
15°	769	740	670	609	586	217
25°	709	661	562	490	463	325
35°	552	508	420	364	344	343
45°	360	334	282	246	235	278
55°	225	207	173	154	143	203
65°	134	119	97	85	89	134
75°	63	55	43	45	48	68
85°	12	11	11	12	13	15
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°	723.9	723.9	723.9	723.9	723.9	723.9	723.9	723.9	723.9
2.5°	737.5	734.6	730.7	726.9	721.0	714.1	708.4	706.4	703.5
5°	753.2	749.2	741.5	731.7	719.0	706.4	695.6	688.8	685.9
7.5°	762.8	758.1	747.3	730.7	712.2	693.7	678.2	668.4	664.4
10°	764.9	760.0	745.4	722.9	698.6	673.3	653.8	642.1	637.2
12.5°	767.7	760.9	742.4	716.1	685.0	655.7	631.4	616.8	611.9
15°	768.7	760.9	739.5	707.3	670.3	635.3	608.9	591.4	585.5
17.5°	764.9	756.0	730.7	691.8	649.9	612.8	581.7	563.2	555.4
20°	751.1	741.5	712.2	668.4	622.5	583.6	551.5	532.0	523.2
22.5°	733.7	721.0	687.8	641.0	593.4	552.4	520.3	500.8	492.0
25°	709.3	697.6	660.6	610.9	562.2	519.3	490.1	469.7	462.7
27.5°	681.0	667.4	629.4	579.8	530.0	487.1	458.9	440.4	431.6
30°	643.1	630.4	592.4	542.6	494.0	454.0	424.8	409.2	405.3
32.5°	598.3	587.5	550.5	503.7	457.0	420.0	395.5	379.0	375.1
35°	552.4	539.8	507.6	463.8	420.0	386.8	364.3	349.8	343.9
37.5°	502.7	491.0	463.8	424.8	385.8	354.7	335.2	322.5	316.7
40°	450.1	441.4	416.0	384.9	349.8	322.5	305.9	295.2	289.4
42.5°	401.4	392.6	375.1	345.8	316.7	292.3	277.6	268.0	263.1
45°	359.6	351.7	334.1	308.8	282.5	262.1	246.5	239.7	234.8
47.5°	317.6	313.7	298.2	274.8	250.4	232.9	222.1	214.4	210.4
50°	285.5	280.6	265.9	241.6	221.2	207.5	197.8	191.0	187.0
52.5°	252.3	247.4	233.8	213.4	196.8	184.1	174.4	168.5	164.7
55°	225.1	221.2	206.6	188.1	173.4	162.8	153.9	147.1	143.2
57.5°	199.8	195.8	182.2	164.7	152.0	142.2	134.5	128.6	123.7
60°	176.4	173.4	159.8	143.2	132.5	122.8	116.0	111.1	108.2
62.5°	155.8	150.0	138.4	123.7	114.0	106.2	99.4	96.5	98.4
65°	133.5	130.5	118.8	106.2	97.4	89.7	84.8	86.7	88.6
67.5°	115.0	111.1	101.4	89.7	81.8	76.0	73.1	77.0	78.0
70°	96.5	92.5	83.8	74.0	67.2	63.3	63.3	66.3	67.2
72.5°	78.9	76.0	68.2	60.4	55.5	52.7	54.6	56.5	57.4
75°	63.3	60.4	54.6	47.8	42.9	42.9	44.8	46.8	47.8
77.5°	48.7	46.8	41.0	36.1	34.0	34.0	36.1	37.0	38.0
80°	34.0	32.1	29.3	26.3	24.4	26.3	28.3	28.3	29.3
82.5°	22.4	21.5	19.5	17.6	17.6	18.5	19.5	20.4	20.4
85°	11.7	11.7	10.7	9.8	10.7	11.7	11.7	12.7	12.7
87.5°	3.9	3.9	3.9	3.9	4.9	4.9	4.9	4.9	4.9
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)