

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: P593100

Luminaire Tested: **HC615D010-HM60525850-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593100
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-HM60525850-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1671.9 lumens
Efficiency: N/A
Efficacy: 119.4 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

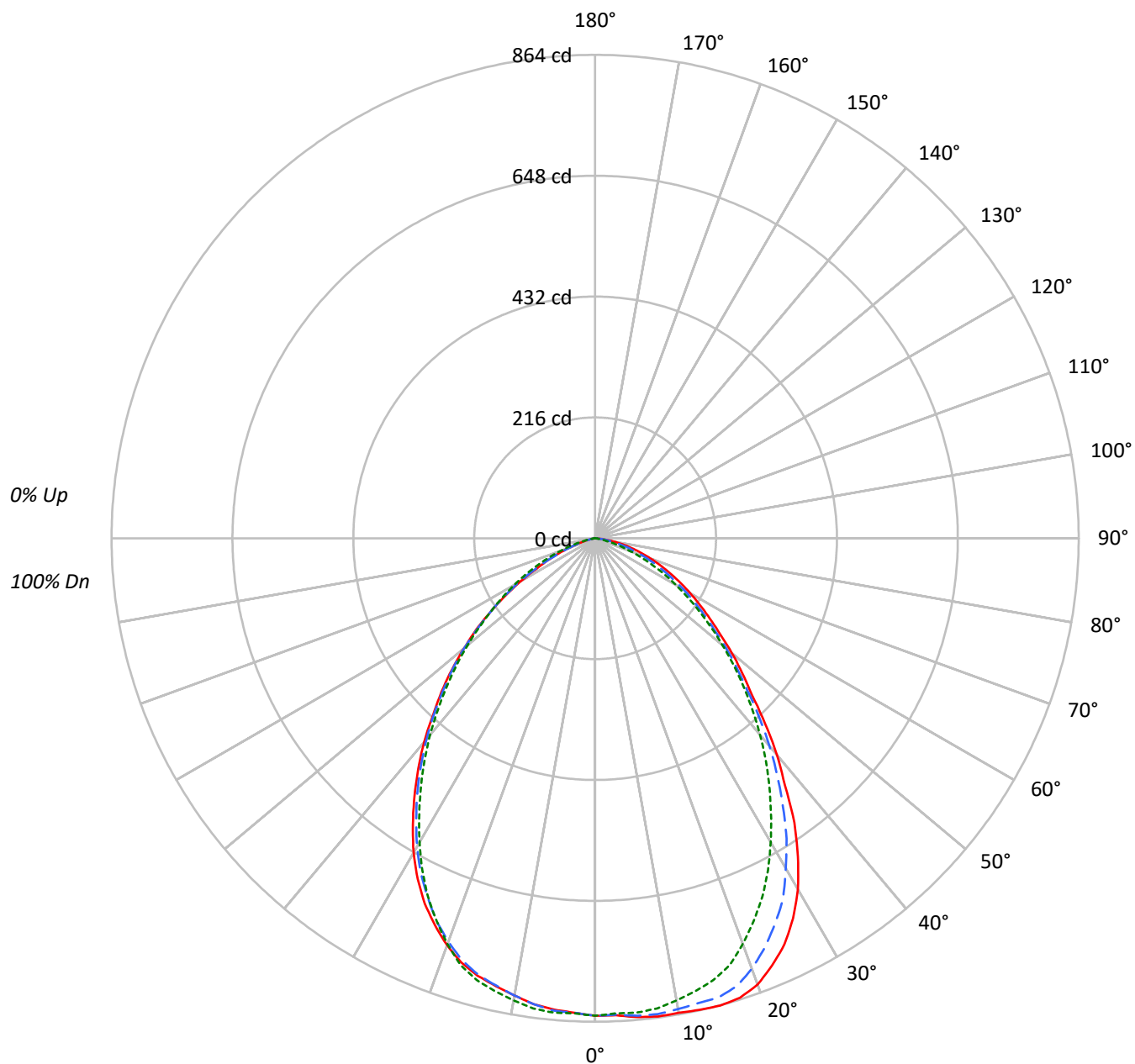
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	46778	46778	46778
5°	47265	46830	46528
10°	47928	46687	46192
15°	49058	46391	45948
20°	49518	45014	45142
25°	48426	42752	43563
30°	45868	39709	41063
35°	41532	36299	37644
40°	36168	32811	34007
45°	30693	29050	30088
50°	27180	25372	26038
55°	23942	21696	21591
60°	21457	18266	16797
65°	19159	14645	12038
70°	16846	10563	7533
75°	14212	6397	4257
80°	10923	2841	1768
85°	6353	692	692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	4.8
10°-20°	232.8	13.9
20°-30°	336.5	20.1
30°-40°	354.1	21.2
40°-50°	297.6	17.8
50°-60°	208.9	12.5
60°-70°	114.9	6.9
70°-80°	40.8	2.4
80°-90°	5.3	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°	650.3	38.9
0°-40°	1004.3	60.1
0°-60°	1510.9	90.4
0°-90°	1671.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1671.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	853	853	853	853	853	
5°	859	857	851	848	846	82
15°	864	850	817	807	810	244
25°	801	760	707	708	720	366
35°	621	585	542	554	562	385
45°	396	385	375	384	388	311
55°	250	237	227	227	226	225
65°	148	132	113	93	93	147
75°	67	54	30	20	20	72
85°	10	6	1	1	1	14
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°	853.3	853.3	853.3	853.3	853.3	853.3	853.3	853.3	853.3
2.5°	853.3	853.3	852.2	852.2	849.9	849.9	848.8	848.8	848.8
5°	858.9	858.9	856.6	853.3	851.0	847.6	847.6	846.5	845.5
7.5°	862.1	861.0	857.7	853.3	847.6	842.1	839.8	840.9	839.8
10°	861.0	858.9	854.3	845.5	838.7	830.8	829.8	828.7	829.8
12.5°	863.3	860.0	851.0	839.8	828.7	819.7	818.6	818.6	819.7
15°	864.4	861.0	849.9	833.1	817.4	808.5	807.4	808.5	809.6
17.5°	861.0	856.6	839.8	817.4	799.6	790.6	790.6	792.8	795.1
20°	848.8	842.1	818.6	791.8	771.6	764.9	767.1	771.6	773.8
22.5°	826.4	818.6	791.8	761.6	740.2	734.7	740.2	745.9	748.1
25°	800.6	791.8	760.4	729.1	706.8	700.1	707.9	716.9	720.2
27.5°	766.0	755.9	726.9	691.1	668.7	665.3	674.3	684.4	686.6
30°	724.6	713.5	681.0	647.5	627.3	626.2	636.3	645.2	648.7
32.5°	674.3	664.2	636.3	602.8	584.9	584.9	595.0	602.8	606.1
35°	620.6	609.5	584.9	556.9	542.4	543.4	553.5	559.1	562.5
37.5°	556.9	553.5	534.6	511.1	501.0	503.3	511.1	515.5	518.9
40°	505.4	496.6	484.2	465.2	458.5	460.7	468.5	473.1	475.2
42.5°	449.6	443.9	433.9	420.5	416.0	419.4	426.1	429.4	428.3
45°	395.9	394.8	384.7	376.8	374.7	379.1	383.5	386.9	388.1
47.5°	356.7	352.3	343.3	337.7	335.5	339.9	344.5	346.6	346.6
50°	318.7	314.3	305.3	299.6	297.5	301.9	305.3	307.5	305.3
52.5°	280.7	276.3	268.4	261.7	260.6	262.8	263.9	265.0	267.3
55°	250.5	246.1	237.1	229.3	227.0	228.1	227.0	227.0	225.9
57.5°	221.4	216.9	208.0	199.1	195.7	194.5	191.2	190.1	189.0
60°	195.7	190.1	181.1	171.0	166.6	162.2	156.5	153.2	153.2
62.5°	171.0	165.5	155.5	146.5	139.8	132.0	123.0	118.5	118.5
65°	147.7	143.1	132.0	121.9	112.9	102.8	92.8	90.6	92.8
67.5°	125.2	120.8	109.6	99.5	88.3	76.0	67.1	67.1	69.3
70°	105.1	100.7	90.6	78.3	65.9	53.7	47.0	47.0	47.0
72.5°	86.1	81.6	70.5	59.2	47.0	34.6	31.3	32.5	31.3
75°	67.1	63.8	53.7	41.4	30.2	21.2	20.1	19.0	20.1
77.5°	50.3	47.0	38.0	26.8	16.8	12.3	11.2	11.2	11.2
80°	34.6	31.3	24.6	15.7	9.0	5.6	5.6	5.6	5.6
82.5°	21.2	17.9	13.4	7.8	3.4	3.4	3.4	3.4	3.4
85°	10.1	7.8	5.6	2.3	1.1	1.1	1.1	1.1	1.1
87.5°	2.3	2.3	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)