

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: P582746

Luminaire Tested: **HC650D010-HM64560835-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582746
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: HC650D010-HM64560835-61RWWC
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: 5429.0 lumens
Efficiency: N/A
Efficacy: 113.1 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

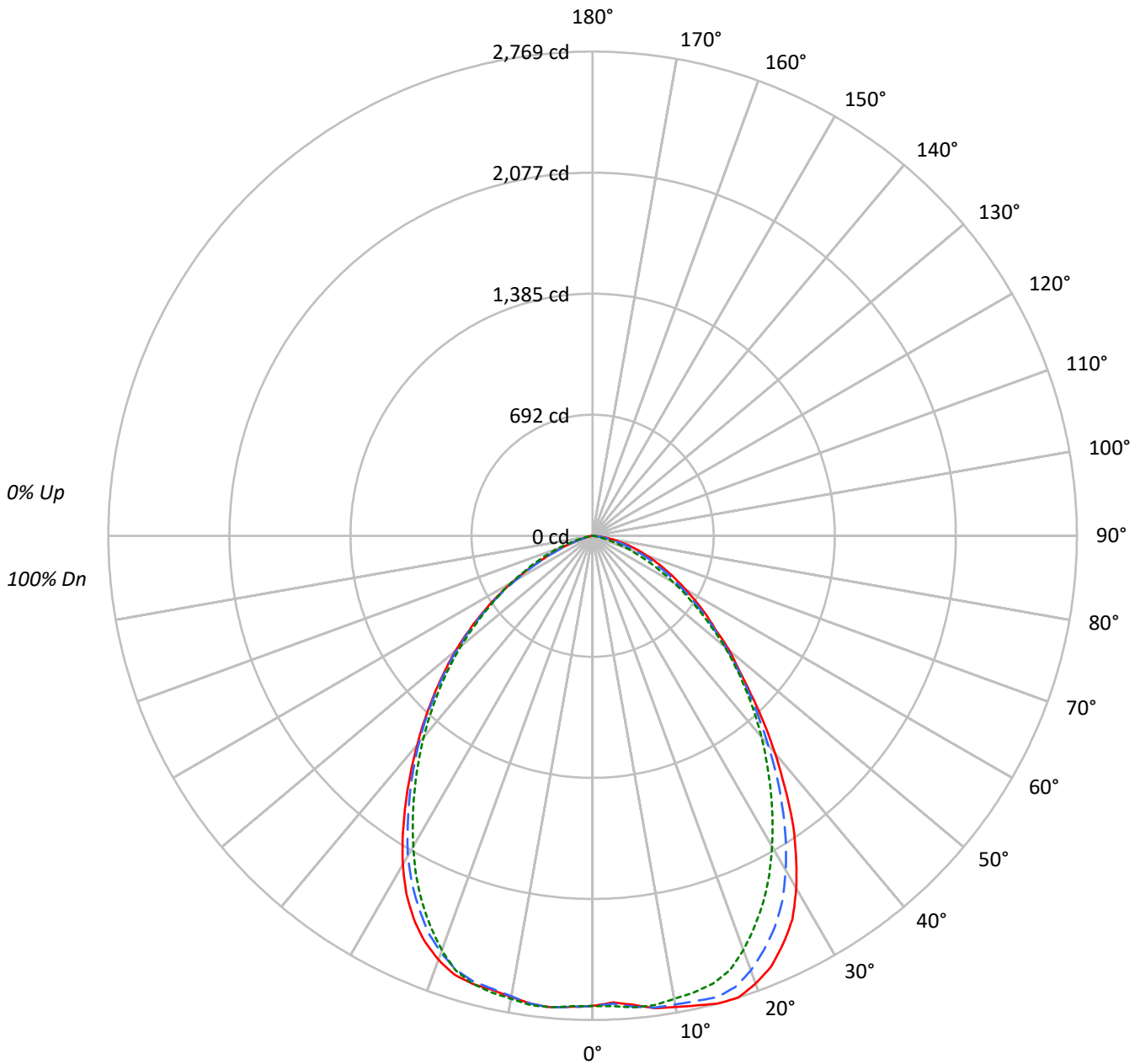
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88			88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77			77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68			68
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60			60
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53			53
6	76	64	56	50	74	63	56	50	62	55	50	60	54	49	58	53	49	47			47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42			42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38			38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35			35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32			32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	147417	147417	147417
5°	148184	148982	148982
10°	152330	149691	149084
15°	157169	150546	150546
20°	159001	147106	150501
25°	155821	139738	146349
30°	147383	129855	137471
35°	133391	118762	124611
40°	116039	107437	111602
45°	99158	95762	99158
50°	87016	83903	87323
55°	75916	70698	73479
60°	67111	58723	57934
65°	59565	46321	39706
70°	52573	32714	23946
75°	44776	18512	11586
80°	33369	5746	3473
85°	18367	2327	2327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.0	4.8
10°-20°	754.7	13.9
20°-30°	1102.3	20.3
30°-40°	1156.0	21.3
40°-50°	973.9	17.9
50°-60°	682.3	12.6
60°-70°	365.8	6.7
70°-80°	122.7	2.3
80°-90°	13.4	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°	2114.9	39.0
0°-40°	3270.9	60.2
0°-60°	4927.1	90.8
0°-90°	5429.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5429.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2689	2689	2689	2689	2689	
5°	2693	2704	2707	2707	2707	259
15°	2769	2733	2653	2638	2653	781
25°	2576	2467	2310	2350	2420	1180
35°	1993	1891	1775	1826	1862	1237
45°	1279	1257	1235	1268	1279	996
55°	794	769	740	754	769	715
65°	459	419	357	295	306	458
75°	211	164	87	55	55	224
85°	29	14	4	4	4	40
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°	2689.1	2689.1	2689.1	2689.1	2689.1	2689.1	2689.1	2689.1	2689.1
2.5°	2670.9	2670.9	2678.2	2685.5	2692.8	2692.8	2696.5	2700.0	2696.5
5°	2692.8	2692.8	2703.7	2707.3	2707.3	2703.7	2707.3	2707.3	2707.3
7.5°	2725.5	2718.3	2722.0	2714.6	2707.3	2703.7	2700.0	2700.0	2700.0
10°	2736.5	2729.2	2722.0	2707.3	2689.1	2678.2	2674.5	2678.2	2678.2
12.5°	2751.0	2743.8	2725.5	2696.5	2674.5	2656.3	2652.6	2660.0	2660.0
15°	2769.3	2762.0	2732.8	2685.5	2652.6	2634.5	2638.1	2645.4	2652.6
17.5°	2769.3	2754.7	2707.3	2645.4	2605.3	2587.1	2601.6	2619.9	2630.8
20°	2725.5	2711.0	2645.4	2568.9	2521.6	2510.6	2536.1	2568.9	2579.8
22.5°	2667.3	2638.1	2561.6	2470.5	2419.5	2419.5	2455.9	2496.0	2510.6
25°	2576.1	2554.3	2466.9	2361.2	2310.2	2306.5	2350.2	2404.9	2419.5
27.5°	2474.1	2445.0	2350.2	2240.9	2186.3	2189.9	2237.3	2292.0	2306.5
30°	2328.3	2292.0	2208.1	2102.4	2051.4	2066.0	2113.4	2153.4	2171.7
32.5°	2164.4	2131.6	2055.1	1956.7	1913.0	1927.5	1967.7	2004.0	2018.7
35°	1993.2	1956.7	1891.1	1803.6	1774.6	1789.1	1825.6	1854.6	1862.0
37.5°	1800.1	1774.6	1727.2	1657.9	1636.0	1654.2	1683.4	1701.7	1708.9
40°	1621.5	1599.7	1559.5	1508.5	1501.3	1515.8	1545.0	1555.8	1559.5
42.5°	1446.6	1428.4	1402.9	1366.4	1366.4	1380.9	1406.5	1413.8	1417.4
45°	1279.0	1268.0	1257.1	1228.0	1235.2	1253.5	1268.0	1279.0	1279.0
47.5°	1133.2	1136.8	1122.3	1100.5	1107.7	1126.0	1136.8	1147.8	1147.8
50°	1020.3	1009.3	994.8	972.9	983.8	998.4	1012.9	1020.3	1023.9
52.5°	889.1	885.4	874.5	849.0	856.3	863.5	878.2	889.1	892.7
55°	794.3	783.4	768.8	739.7	739.7	747.0	754.3	761.5	768.8
57.5°	703.3	692.3	670.5	637.6	634.1	634.1	630.4	637.6	648.6
60°	612.1	608.6	575.7	546.6	535.6	524.7	510.1	513.7	528.4
62.5°	532.0	524.7	495.5	459.2	437.2	419.0	400.8	397.2	411.7
65°	459.2	451.9	419.0	382.6	357.1	324.3	295.1	295.1	306.1
67.5°	393.5	379.0	349.8	309.8	276.9	236.8	207.7	214.9	218.6
70°	328.0	317.0	284.3	244.1	204.1	163.9	145.7	149.4	149.4
72.5°	269.6	255.1	222.3	182.2	142.1	105.7	98.4	94.7	94.7
75°	211.4	196.8	163.9	123.9	87.4	62.0	54.7	54.7	54.7
77.5°	153.1	142.1	112.9	76.5	47.4	29.2	25.5	21.8	21.8
80°	105.7	94.7	69.2	40.0	18.2	11.0	11.0	11.0	11.0
82.5°	62.0	51.0	32.8	18.2	7.3	3.7	3.7	3.7	3.7
85°	29.2	21.8	14.5	7.3	3.7	3.7	3.7	3.7	3.7
87.5°	3.7	3.7	3.7	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)