

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: P582747

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582747
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: HC650D010-HM64560835-61RWWH
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: 5447.3 lumens
Efficiency: N/A
Efficacy: 113.5 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

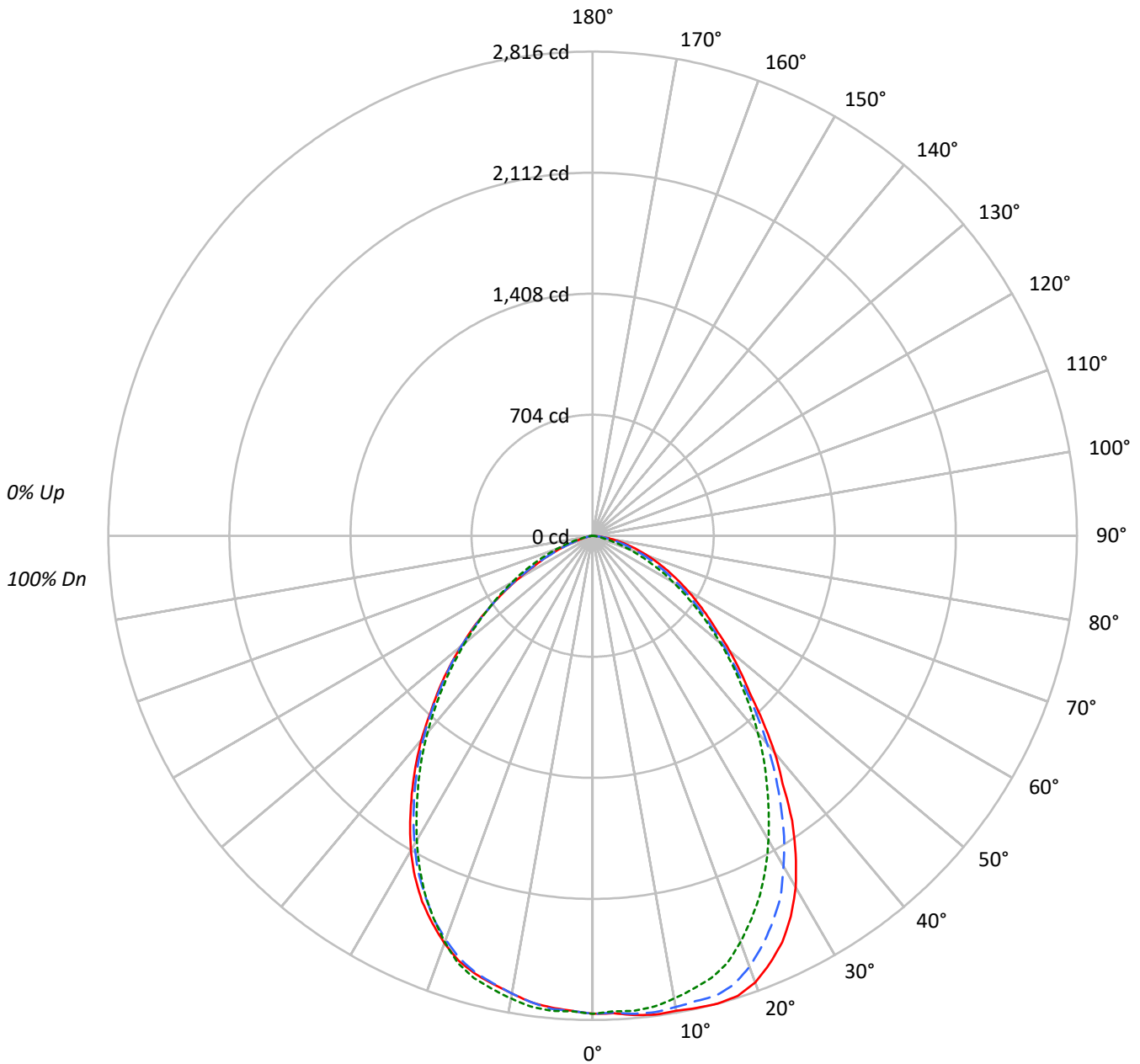
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	92	90	88			88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77			77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67			67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59			59
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	61	55	50	60	54	49	58	53	49	47			47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	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°	152400	152400	152400
5°	153978	152575	151573
10°	156171	152113	150487
15°	159836	151159	149711
20°	161323	146663	147083
25°	157793	139278	141928
30°	149447	129387	133767
35°	135325	118253	122650
40°	117849	106900	110808
45°	99995	94630	98018
50°	88551	82650	84825
55°	78000	70698	70344
60°	69907	59524	54721
65°	62380	47735	39239
70°	54897	34445	24539
75°	46301	20842	13873
80°	35642	9218	5746
85°	20631	2327	2327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.9	4.8
10°-20°	758.4	13.9
20°-30°	1096.3	20.1
30°-40°	1153.6	21.2
40°-50°	969.7	17.8
50°-60°	680.6	12.5
60°-70°	374.4	6.9
70°-80°	132.9	2.4
80°-90°	17.4	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°	2118.6	38.9
0°-40°	3272.1	60.1
0°-60°	4922.5	90.4
0°-90°	5447.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5447.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2780	2780	2780	2780	2780	
5°	2798	2791	2773	2762	2754	267
15°	2816	2769	2663	2631	2638	795
25°	2609	2478	2303	2306	2346	1193
35°	2022	1906	1767	1804	1833	1253
45°	1290	1253	1221	1250	1264	1012
55°	816	772	740	740	736	734
65°	481	430	368	302	302	479
75°	219	175	98	66	66	235
85°	33	18	4	4	4	45
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°	2780.0	2780.0	2780.0	2780.0	2780.0	2780.0	2780.0	2780.0	2780.0
2.5°	2780.0	2780.0	2776.3	2776.3	2769.0	2769.0	2765.3	2765.3	2765.3
5°	2798.1	2798.1	2790.8	2780.0	2772.6	2761.8	2761.8	2758.1	2754.4
7.5°	2809.1	2805.5	2794.5	2780.0	2761.8	2743.5	2736.3	2739.8	2736.3
10°	2805.5	2798.1	2783.6	2754.4	2732.6	2707.1	2703.4	2699.8	2703.4
12.5°	2812.7	2801.8	2772.6	2736.3	2699.8	2670.6	2666.9	2666.9	2670.6
15°	2816.3	2805.5	2769.0	2714.3	2663.4	2634.2	2630.6	2634.2	2637.9
17.5°	2805.5	2790.8	2736.3	2663.4	2605.0	2575.9	2575.9	2583.2	2590.5
20°	2765.3	2743.5	2666.9	2579.5	2514.0	2492.1	2499.4	2514.0	2521.2
22.5°	2692.4	2666.9	2579.5	2481.2	2412.0	2393.8	2412.0	2430.1	2437.5
25°	2608.7	2579.5	2477.5	2375.5	2302.6	2280.7	2306.3	2335.4	2346.4
27.5°	2495.7	2463.0	2368.3	2251.6	2178.7	2167.8	2197.0	2229.7	2237.1
30°	2360.9	2324.4	2218.9	2109.5	2044.0	2040.3	2073.1	2102.3	2113.2
32.5°	2197.0	2164.2	2073.1	1963.8	1905.5	1905.5	1938.3	1963.8	1974.8
35°	2022.1	1985.6	1905.5	1814.4	1767.0	1770.7	1803.5	1821.7	1832.7
37.5°	1814.4	1803.5	1741.5	1665.1	1632.3	1639.6	1665.1	1679.6	1690.6
40°	1646.8	1617.7	1577.6	1515.7	1493.8	1501.1	1526.6	1541.2	1548.4
42.5°	1464.7	1446.5	1413.7	1370.0	1355.3	1366.3	1388.1	1399.1	1395.5
45°	1289.8	1286.1	1253.3	1227.9	1220.6	1235.1	1249.7	1260.6	1264.3
47.5°	1162.2	1147.7	1118.5	1100.3	1093.0	1107.5	1122.2	1129.5	1129.5
50°	1038.3	1023.8	994.6	976.5	969.1	983.8	994.6	1002.0	994.6
52.5°	914.4	899.9	874.4	852.6	848.9	856.2	859.9	863.5	870.8
55°	816.1	801.5	772.4	746.9	739.7	743.2	739.7	739.7	736.0
57.5°	721.4	706.8	677.7	648.5	637.6	634.0	623.0	619.4	615.8
60°	637.6	619.4	590.3	557.4	542.9	528.3	510.1	499.1	499.1
62.5°	557.4	539.2	506.4	477.2	455.4	429.9	400.8	386.2	386.2
65°	480.9	466.4	429.9	397.2	368.0	335.2	302.5	295.1	302.5
67.5°	408.0	393.5	357.0	324.3	287.8	247.8	218.6	218.6	225.9
70°	342.5	328.0	295.1	255.1	214.9	174.9	153.1	153.1	153.1
72.5°	280.5	266.0	229.6	193.1	153.1	112.9	102.0	105.7	102.0
75°	218.6	207.6	174.9	134.8	98.4	69.2	65.5	61.9	65.5
77.5°	163.9	153.1	123.9	87.4	54.7	40.0	36.5	36.5	36.5
80°	112.9	102.0	80.2	51.0	29.2	18.2	18.2	18.2	18.2
82.5°	69.2	58.3	43.7	25.5	11.0	11.0	11.0	11.0	11.0
85°	32.8	25.5	18.2	7.3	3.7	3.7	3.7	3.7	3.7
87.5°	7.3	7.3	3.7	3.7	0.0	3.7	3.7	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)