

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: P582818

Luminaire Tested: **HC650D010-HM64560935-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582818
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-HM64560935-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4835.7 lumens
Efficiency: N/A
Efficacy: 100.7 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

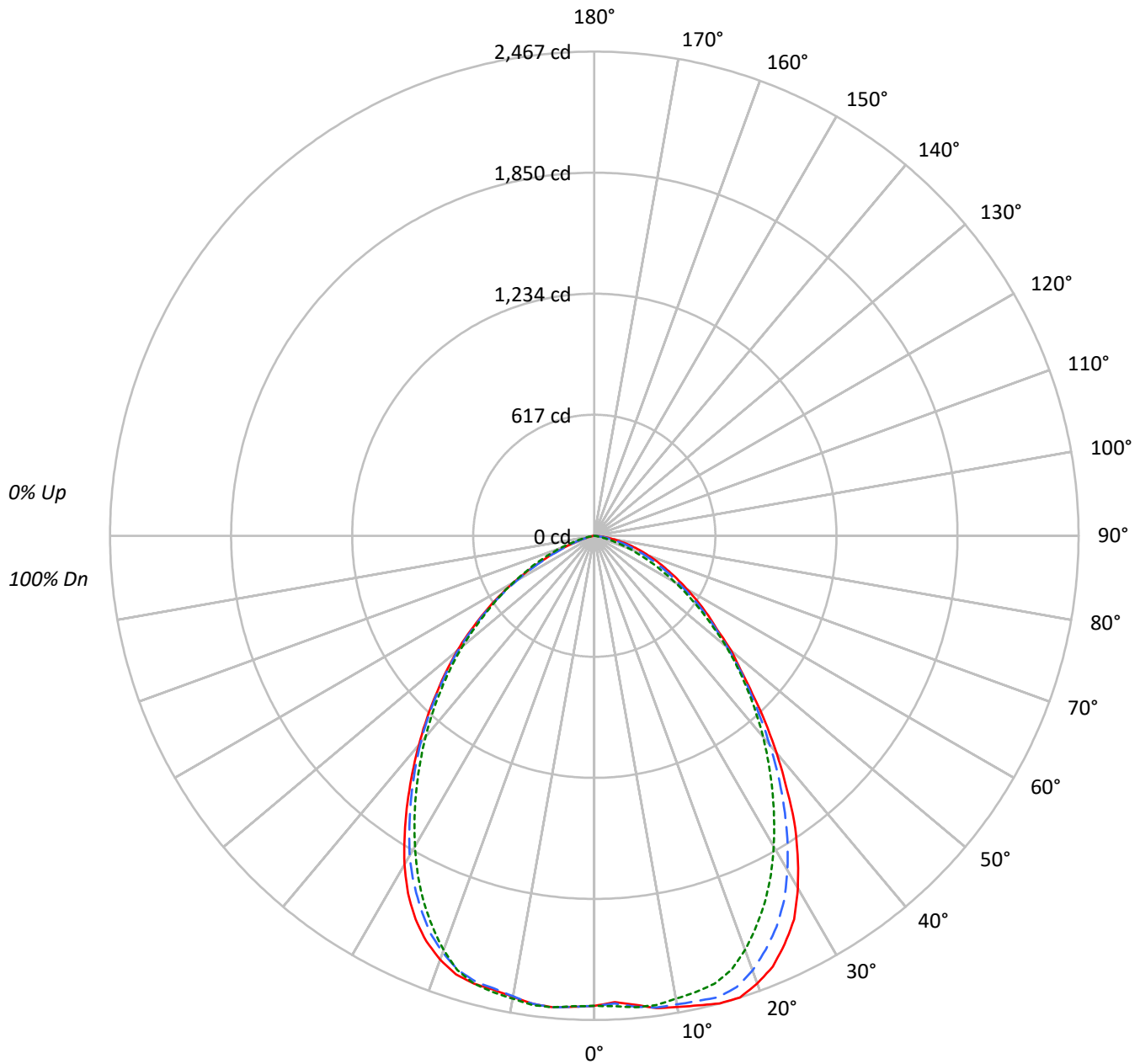
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	107	104	101	108	105	102	99		101	98	96			97	95	93			94
2	103	96	90	86	100	94	89	85		91	86	83			88	84	81			85
3	95	86	79	74	93	85	78	73		82	76	72			79	75	71			77
4	88	78	70	64	86	76	69	64		74	68	63			72	67	62			70
5	82	70	62	57	80	69	62	56		67	61	56			65	60	55			64
6	76	64	56	50	74	63	56	50		62	55	50			60	54	49			58
7	71	59	51	45	69	58	50	45		56	50	45			55	49	45			54
8	66	54	46	41	65	53	46	41		52	45	41			51	45	40			50
9	62	50	42	37	61	49	42	37		48	42	37			47	41	37			46
10	59	46	39	34	57	46	39	34		45	38	34			44	38	34			43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	131305	131305	131305
5°	131988	132704	132704
10°	135686	133331	132791
15°	139989	134098	134098
20°	141628	131022	134056
25°	138794	124465	130356
30°	131286	115663	122449
35°	118809	105785	110992
40°	103351	95686	99408
45°	88319	85296	88319
50°	77507	74735	77780
55°	67620	62975	65460
60°	59787	52309	51597
65°	53054	41250	35360
70°	46819	29140	21334
75°	39884	16500	10315
80°	29707	5114	3062
85°	16354	2013	2013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.8	4.8
10°-20°	672.2	13.9
20°-30°	981.8	20.3
30°-40°	1029.7	21.3
40°-50°	867.4	17.9
50°-60°	607.8	12.6
60°-70°	325.8	6.7
70°-80°	109.3	2.3
80°-90°	11.9	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°	1883.8	39.0
0°-40°	2913.4	60.2
0°-60°	4388.7	90.8
0°-90°	4835.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4835.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2395	2395	2395	2395	2395	
5°	2398	2408	2412	2412	2412	231
15°	2467	2434	2363	2350	2363	696
25°	2295	2197	2058	2093	2155	1051
35°	1775	1684	1581	1626	1658	1102
45°	1139	1120	1100	1130	1139	887
55°	708	685	659	672	685	637
65°	409	373	318	263	273	408
75°	188	146	78	49	49	200
85°	26	13	3	3	3	36
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°	2395.2	2395.2	2395.2	2395.2	2395.2	2395.2	2395.2	2395.2	2395.2
2.5°	2379.0	2379.0	2385.5	2392.0	2398.5	2398.5	2401.7	2405.0	2401.7
5°	2398.5	2398.5	2408.2	2411.5	2411.5	2408.2	2411.5	2411.5	2411.5
7.5°	2427.7	2421.2	2424.5	2418.0	2411.5	2408.2	2405.0	2405.0	2405.0
10°	2437.5	2431.0	2424.5	2411.5	2395.2	2385.5	2382.2	2385.5	2385.5
12.5°	2450.5	2444.0	2427.7	2401.7	2382.2	2366.0	2362.8	2369.3	2369.3
15°	2466.6	2460.1	2434.2	2392.0	2362.8	2346.5	2349.8	2356.3	2362.8
17.5°	2466.6	2453.6	2411.5	2356.3	2320.5	2304.4	2317.4	2333.5	2343.3
20°	2427.7	2414.7	2356.3	2288.2	2245.9	2236.2	2258.9	2288.2	2297.9
22.5°	2375.8	2349.8	2281.7	2200.6	2155.1	2155.1	2187.6	2223.2	2236.2
25°	2294.6	2275.2	2197.3	2103.1	2057.7	2054.5	2093.4	2142.1	2155.1
27.5°	2203.7	2177.8	2093.4	1996.0	1947.4	1950.5	1992.8	2041.5	2054.5
30°	2074.0	2041.5	1966.8	1872.7	1827.2	1840.2	1882.4	1918.2	1934.4
32.5°	1927.9	1898.7	1830.6	1742.9	1703.9	1716.9	1752.6	1785.1	1798.1
35°	1775.3	1742.9	1684.5	1606.5	1580.7	1593.5	1626.0	1652.0	1658.5
37.5°	1603.3	1580.7	1538.4	1476.7	1457.2	1473.5	1499.4	1515.7	1522.2
40°	1444.2	1424.8	1389.1	1343.6	1337.1	1350.1	1376.1	1385.9	1389.1
42.5°	1288.5	1272.3	1249.5	1217.1	1217.1	1230.1	1252.8	1259.3	1262.5
45°	1139.2	1129.5	1119.7	1093.7	1100.2	1116.5	1129.5	1139.2	1139.2
47.5°	1009.4	1012.6	999.6	980.1	986.6	1002.9	1012.6	1022.4	1022.4
50°	908.8	899.0	886.0	866.6	876.3	889.3	902.3	908.8	912.0
52.5°	792.0	788.7	779.0	756.2	762.7	769.2	782.2	792.0	795.2
55°	707.5	697.9	684.9	658.9	658.9	665.4	671.9	678.4	684.9
57.5°	626.4	616.6	597.2	567.9	564.8	564.8	561.4	567.9	577.7
60°	545.3	542.0	512.8	486.8	477.1	467.3	454.3	457.6	470.6
62.5°	473.8	467.3	441.3	409.0	389.5	373.2	357.0	353.7	366.7
65°	409.0	402.5	373.2	340.8	318.0	288.9	262.9	262.9	272.6
67.5°	350.5	337.5	311.5	275.9	246.7	210.9	184.9	191.4	194.7
70°	292.1	282.4	253.2	217.4	181.8	146.1	129.8	133.1	133.1
72.5°	240.2	227.2	197.9	162.3	126.6	94.1	87.6	84.4	84.4
75°	188.3	175.3	146.1	110.3	77.9	55.2	48.7	48.7	48.7
77.5°	136.3	126.6	100.6	68.1	42.2	26.0	22.7	19.5	19.5
80°	94.1	84.4	61.6	35.7	16.2	9.7	9.7	9.7	9.7
82.5°	55.2	45.5	29.2	16.2	6.5	3.2	3.2	3.2	3.2
85°	26.0	19.5	13.0	6.5	3.2	3.2	3.2	3.2	3.2
87.5°	3.2	3.2	3.2	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)