

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: P582765

Luminaire Tested: **HC650D010-HM64560840-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582765
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-HM64560840-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5672.6 lumens
Efficiency: N/A
Efficacy: 118.2 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

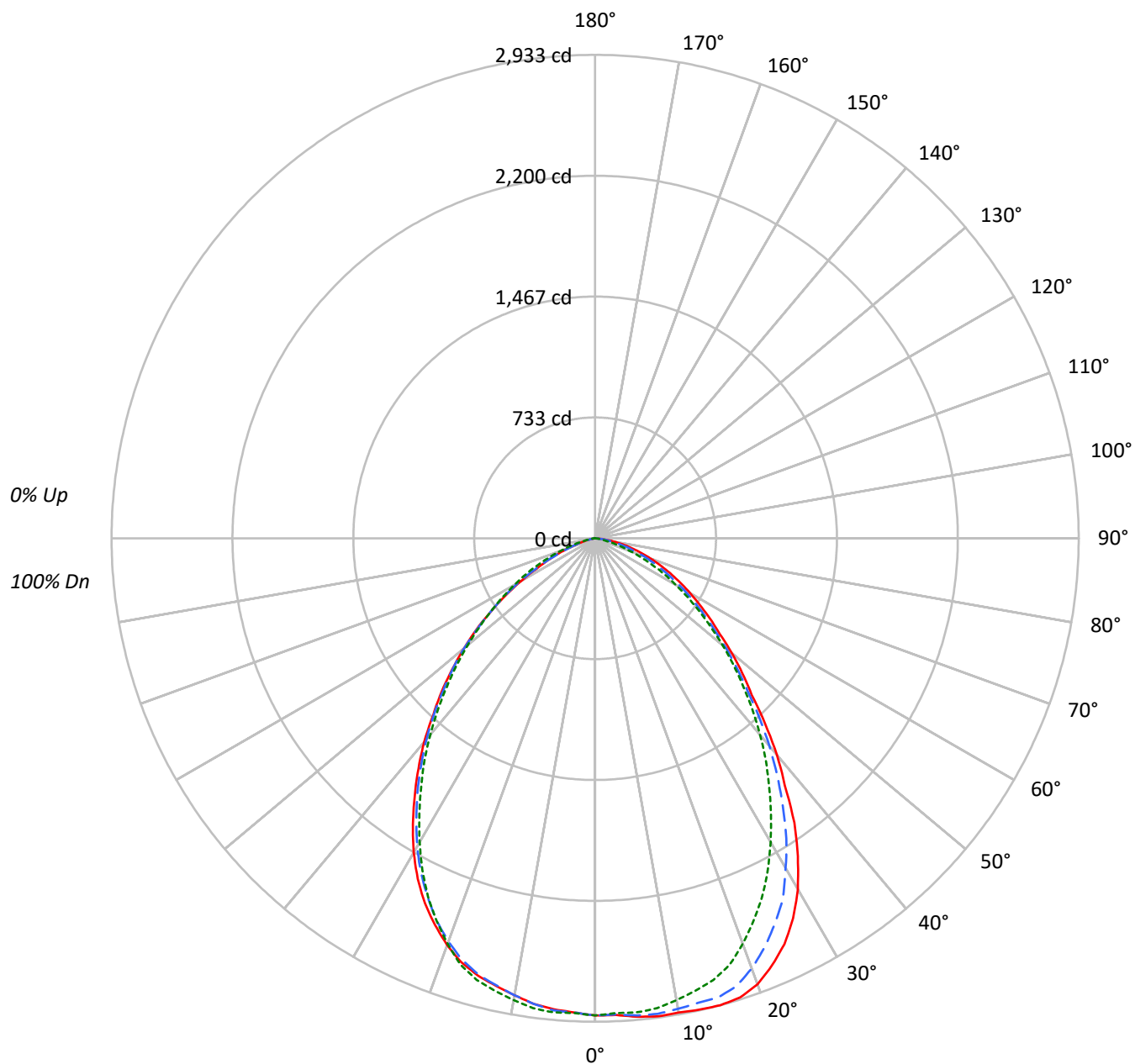
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	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
1	111	107	104	101	108	105	102	99		101	98	96		97	95	93		93	92	90
2	103	96	90	85	100	94	89	84		91	86	83		87	84	81		85	82	79
3	95	86	79	74	93	84	78	73		82	76	72		79	74	70		77	73	69
4	88	78	70	64	86	76	69	64		74	68	63		72	66	62		70	65	61
5	82	70	62	57	80	69	62	56		67	61	56		65	60	55		64	59	55
6	76	64	56	50	74	63	56	50		61	55	50		60	54	49		58	53	49
7	71	59	51	45	69	58	50	45		56	50	45		55	49	44		54	48	44
8	66	54	46	41	65	53	46	41		52	45	41		51	45	40		50	44	40
9	62	50	42	37	61	49	42	37		48	42	37		47	41	37		46	41	37
10	59	46	39	34	57	46	39	34		45	38	34		44	38	34		43	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	158704	158704	158704
5°	160351	158887	157847
10°	162633	158403	156716
15°	166454	157413	155903
20°	168003	152724	153173
25°	164326	145043	147801
30°	155632	134736	139306
35°	140920	123145	127723
40°	122723	111323	115395
45°	104135	98537	102073
50°	92219	86078	88347
55°	81221	73613	73259
60°	72801	61980	56991
65°	64975	49707	40860
70°	57173	35871	25533
75°	48229	21689	14467
80°	37126	9597	5998
85°	21449	2390	2390



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.8	4.8
10°-20°	789.8	13.9
20°-30°	1141.7	20.1
30°-40°	1201.3	21.2
40°-50°	1009.9	17.8
50°-60°	708.8	12.5
60°-70°	389.9	6.9
70°-80°	138.4	2.4
80°-90°	18.1	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°	2206.2	38.9
0°-40°	3407.5	60.1
0°-60°	5126.2	90.4
0°-90°	5672.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5672.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2895	2895	2895	2895	2895	
5°	2914	2906	2887	2876	2868	278
15°	2933	2884	2774	2739	2747	828
25°	2717	2580	2398	2402	2444	1243
35°	2106	1984	1840	1878	1908	1305
45°	1343	1305	1271	1301	1317	1054
55°	850	804	770	770	766	765
65°	501	448	383	315	315	498
75°	228	182	102	68	68	244
85°	34	19	4	4	4	47
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°	2895.0	2895.0	2895.0	2895.0	2895.0	2895.0	2895.0	2895.0	2895.0
2.5°	2895.0	2895.0	2891.2	2891.2	2883.5	2883.5	2879.8	2879.8	2879.8
5°	2913.9	2913.9	2906.3	2895.0	2887.3	2876.0	2876.0	2872.2	2868.4
7.5°	2925.3	2921.6	2910.1	2895.0	2876.0	2857.0	2849.4	2853.2	2849.4
10°	2921.6	2913.9	2898.8	2868.4	2845.6	2819.0	2815.3	2811.5	2815.3
12.5°	2929.1	2917.7	2887.3	2849.4	2811.5	2781.1	2777.4	2777.4	2781.1
15°	2932.9	2921.6	2883.5	2826.6	2773.6	2743.2	2739.4	2743.2	2747.0
17.5°	2921.6	2906.3	2849.4	2773.6	2712.9	2682.5	2682.5	2690.1	2697.6
20°	2879.8	2857.0	2777.4	2686.3	2617.9	2595.2	2602.8	2617.9	2625.6
22.5°	2803.9	2777.4	2686.3	2583.8	2511.8	2492.7	2511.8	2530.8	2538.3
25°	2716.7	2686.3	2580.0	2473.8	2397.9	2375.1	2401.7	2432.0	2443.5
27.5°	2599.0	2564.9	2466.2	2344.8	2268.9	2257.5	2287.8	2322.1	2329.6
30°	2458.6	2420.7	2310.6	2196.8	2128.5	2124.7	2158.9	2189.2	2200.7
32.5°	2287.8	2253.7	2158.9	2045.0	1984.3	1984.3	2018.4	2045.0	2056.5
35°	2105.7	2067.8	1984.3	1889.5	1840.1	1844.0	1878.1	1897.0	1908.5
37.5°	1889.5	1878.1	1813.7	1733.9	1699.8	1707.4	1733.9	1749.1	1760.5
40°	1714.9	1684.6	1642.9	1578.4	1555.6	1563.2	1589.7	1605.0	1612.5
42.5°	1525.3	1506.2	1472.1	1426.6	1411.4	1422.9	1445.5	1457.0	1453.2
45°	1343.2	1339.4	1305.2	1278.7	1271.0	1286.2	1301.3	1312.8	1316.6
47.5°	1210.3	1195.2	1164.8	1145.8	1138.2	1153.5	1168.6	1176.2	1176.2
50°	1081.3	1066.2	1035.9	1016.8	1009.3	1024.4	1035.9	1043.4	1035.9
52.5°	952.4	937.1	910.6	887.9	884.1	891.7	895.4	899.2	906.8
55°	849.8	834.7	804.4	777.8	770.2	774.0	770.2	770.2	766.5
57.5°	751.2	736.1	705.8	675.4	664.0	660.2	648.8	645.1	641.2
60°	664.0	645.1	614.7	580.5	565.3	550.1	531.2	519.8	519.8
62.5°	580.5	561.6	527.4	497.1	474.3	447.7	417.4	402.1	402.1
65°	500.9	485.6	447.7	413.6	383.2	349.1	315.0	307.3	315.0
67.5°	424.9	409.8	371.8	337.6	299.7	258.0	227.7	227.7	235.3
70°	356.7	341.4	307.3	265.6	223.8	182.1	159.3	159.3	159.3
72.5°	292.2	276.9	239.0	201.1	159.3	117.6	106.3	110.1	106.3
75°	227.7	216.2	182.1	140.4	102.4	72.0	68.3	64.5	68.3
77.5°	170.8	159.3	129.0	91.1	56.9	41.7	37.9	37.9	37.9
80°	117.6	106.3	83.5	53.1	30.4	19.0	19.0	19.0	19.0
82.5°	72.0	60.7	45.6	26.6	11.3	11.3	11.3	11.3	11.3
85°	34.1	26.6	19.0	7.6	3.8	3.8	3.8	3.8	3.8
87.5°	7.6	7.6	3.8	3.8	0.0	3.8	3.8	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)