

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: P582999

Luminaire Tested: **HC655D010-HM64560827-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582999
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: HC655D010-HM64560827-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5056.3 lumens
Efficiency: N/A
Efficacy: 97.2 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

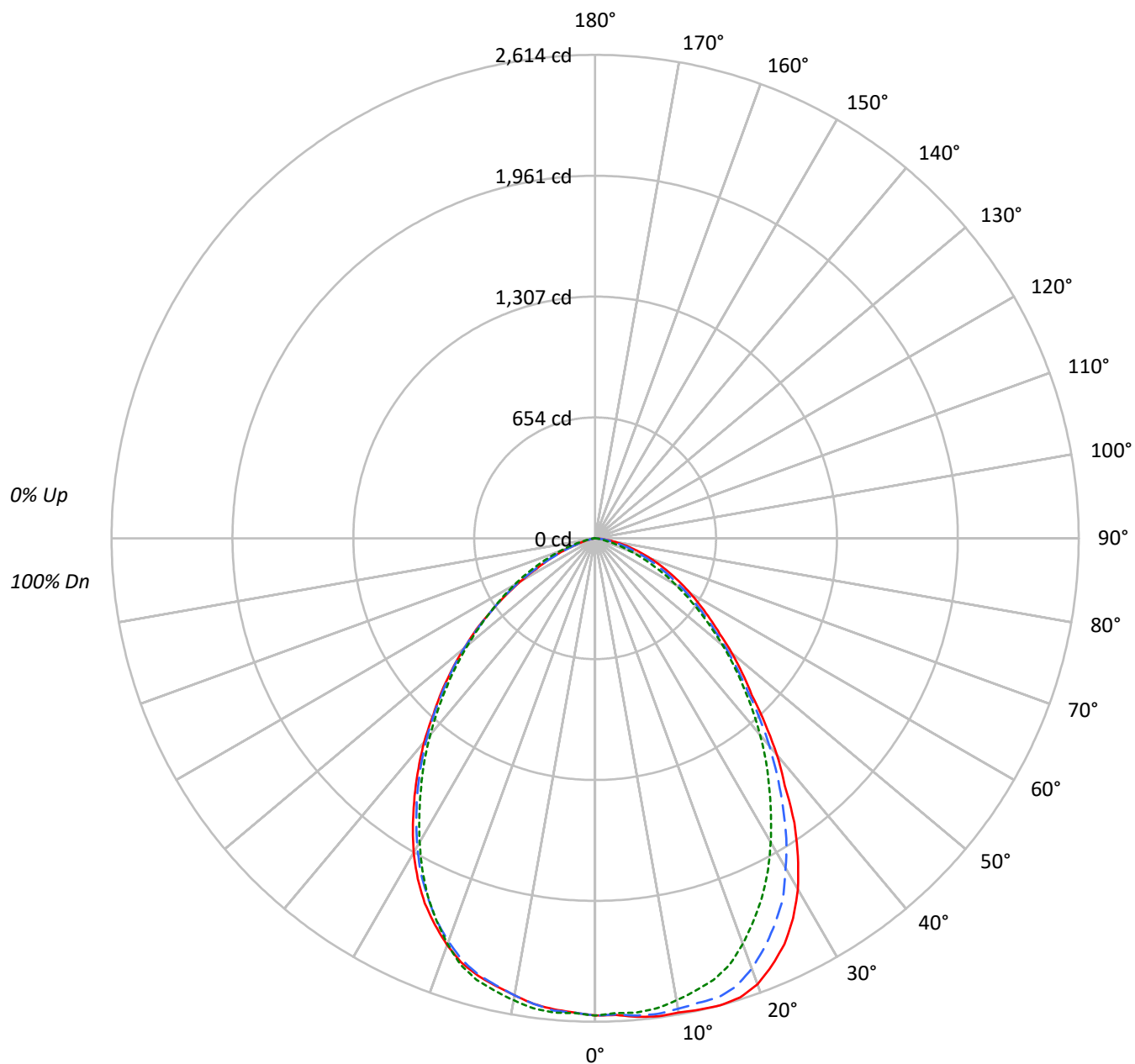
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			93
2	103	96	90	85	100	94	89	84		91	86	83			87	84	81			85
3	95	86	79	74	93	84	78	73		82	76	72			79	74	70			77
4	88	78	70	64	86	76	69	64		74	68	63			72	66	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		61	55	50			60	54	49			58
7	71	59	51	45	69	58	50	45		56	50	45			55	49	44			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°	141463	141463	141463
5°	142934	141630	140700
10°	144959	141196	139688
15°	148372	140307	138968
20°	149749	136139	136529
25°	146470	129286	131741
30°	138724	120101	124165
35°	125608	109767	113850
40°	109398	99229	102857
45°	92816	87839	90978
50°	82206	76722	78744
55°	72408	65613	65298
60°	64896	55259	50807
65°	57918	44298	36411
70°	50954	31993	22776
75°	42976	19338	12899
80°	33085	8555	5335
85°	19121	2139	2139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.9	4.8
10°-20°	704.0	13.9
20°-30°	1017.6	20.1
30°-40°	1070.8	21.2
40°-50°	900.1	17.8
50°-60°	631.8	12.5
60°-70°	347.5	6.9
70°-80°	123.4	2.4
80°-90°	16.1	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°	1966.5	38.9
0°-40°	3037.3	60.1
0°-60°	4569.2	90.4
0°-90°	5056.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5056.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2580	2580	2580	2580	2580	
5°	2597	2590	2574	2564	2557	248
15°	2614	2570	2472	2442	2449	738
25°	2422	2300	2137	2141	2178	1108
35°	1877	1769	1640	1674	1701	1163
45°	1197	1163	1133	1160	1174	939
55°	758	717	686	686	683	682
65°	446	399	342	281	281	444
75°	203	162	91	61	61	218
85°	30	17	3	3	3	42
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°	2580.5	2580.5	2580.5	2580.5	2580.5	2580.5	2580.5	2580.5	2580.5
2.5°	2580.5	2580.5	2577.0	2577.0	2570.3	2570.3	2566.9	2566.9	2566.9
5°	2597.4	2597.4	2590.5	2580.5	2573.7	2563.6	2563.6	2560.1	2556.8
7.5°	2607.5	2604.1	2594.0	2580.5	2563.6	2546.6	2539.9	2543.2	2539.9
10°	2604.1	2597.4	2583.8	2556.8	2536.5	2512.8	2509.4	2506.1	2509.4
12.5°	2610.9	2600.7	2573.7	2539.9	2506.1	2479.0	2475.5	2475.5	2479.0
15°	2614.3	2604.1	2570.3	2519.6	2472.2	2445.1	2441.8	2445.1	2448.6
17.5°	2604.1	2590.5	2539.9	2472.2	2418.1	2391.1	2391.1	2397.8	2404.6
20°	2566.9	2546.6	2475.5	2394.4	2333.6	2313.2	2320.0	2333.6	2340.3
22.5°	2499.3	2475.5	2394.4	2303.1	2238.8	2221.9	2238.8	2255.7	2262.5
25°	2421.5	2394.4	2299.8	2205.0	2137.4	2117.1	2140.8	2167.8	2178.0
27.5°	2316.7	2286.3	2198.3	2090.0	2022.5	2012.3	2039.4	2069.8	2076.5
30°	2191.5	2157.7	2059.6	1958.2	1897.3	1893.9	1924.4	1951.4	1961.5
32.5°	2039.4	2008.9	1924.4	1822.9	1768.8	1768.8	1799.2	1822.9	1833.1
35°	1876.9	1843.2	1768.8	1684.2	1640.2	1643.7	1674.1	1691.0	1701.2
37.5°	1684.2	1674.1	1616.6	1545.6	1515.1	1521.9	1545.6	1559.1	1569.2
40°	1528.7	1501.6	1464.4	1406.9	1386.6	1393.3	1417.0	1430.6	1437.3
42.5°	1359.5	1342.6	1312.2	1271.6	1258.1	1268.3	1288.5	1298.7	1295.3
45°	1197.2	1193.9	1163.4	1139.7	1133.0	1146.4	1160.0	1170.1	1173.5
47.5°	1078.9	1065.3	1038.3	1021.4	1014.5	1028.1	1041.6	1048.4	1048.4
50°	963.9	950.3	923.3	906.4	899.6	913.2	923.3	930.1	923.3
52.5°	848.9	835.3	811.7	791.4	788.0	794.7	798.2	801.5	808.3
55°	757.6	744.0	717.0	693.4	686.5	689.9	686.5	686.5	683.2
57.5°	669.6	656.1	629.0	602.0	591.9	588.4	578.4	574.9	571.5
60°	591.9	574.9	547.8	517.4	504.0	490.4	473.4	463.4	463.4
62.5°	517.4	500.5	470.1	443.0	422.8	399.0	372.1	358.4	358.4
65°	446.5	432.9	399.0	368.6	341.5	311.1	280.7	274.0	280.7
67.5°	378.8	365.3	331.5	301.0	267.1	230.0	202.9	202.9	209.6
70°	317.9	304.4	274.0	236.7	199.6	162.3	142.1	142.1	142.1
72.5°	260.4	246.9	213.1	179.2	142.1	104.8	94.6	98.1	94.6
75°	202.9	192.8	162.3	125.2	91.3	64.2	60.9	57.5	60.9
77.5°	152.1	142.1	115.0	81.2	50.8	37.1	33.8	33.8	33.8
80°	104.8	94.6	74.4	47.3	27.1	16.9	16.9	16.9	16.9
82.5°	64.2	54.1	40.6	23.7	10.2	10.2	10.2	10.2	10.2
85°	30.4	23.7	16.9	6.7	3.4	3.4	3.4	3.4	3.4
87.5°	6.7	6.7	3.4	3.4	0.0	3.4	3.4	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)