

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: P583043

Luminaire Tested: **HC655D010-HM64560835-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC655D010-HM64560835-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5468.9 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

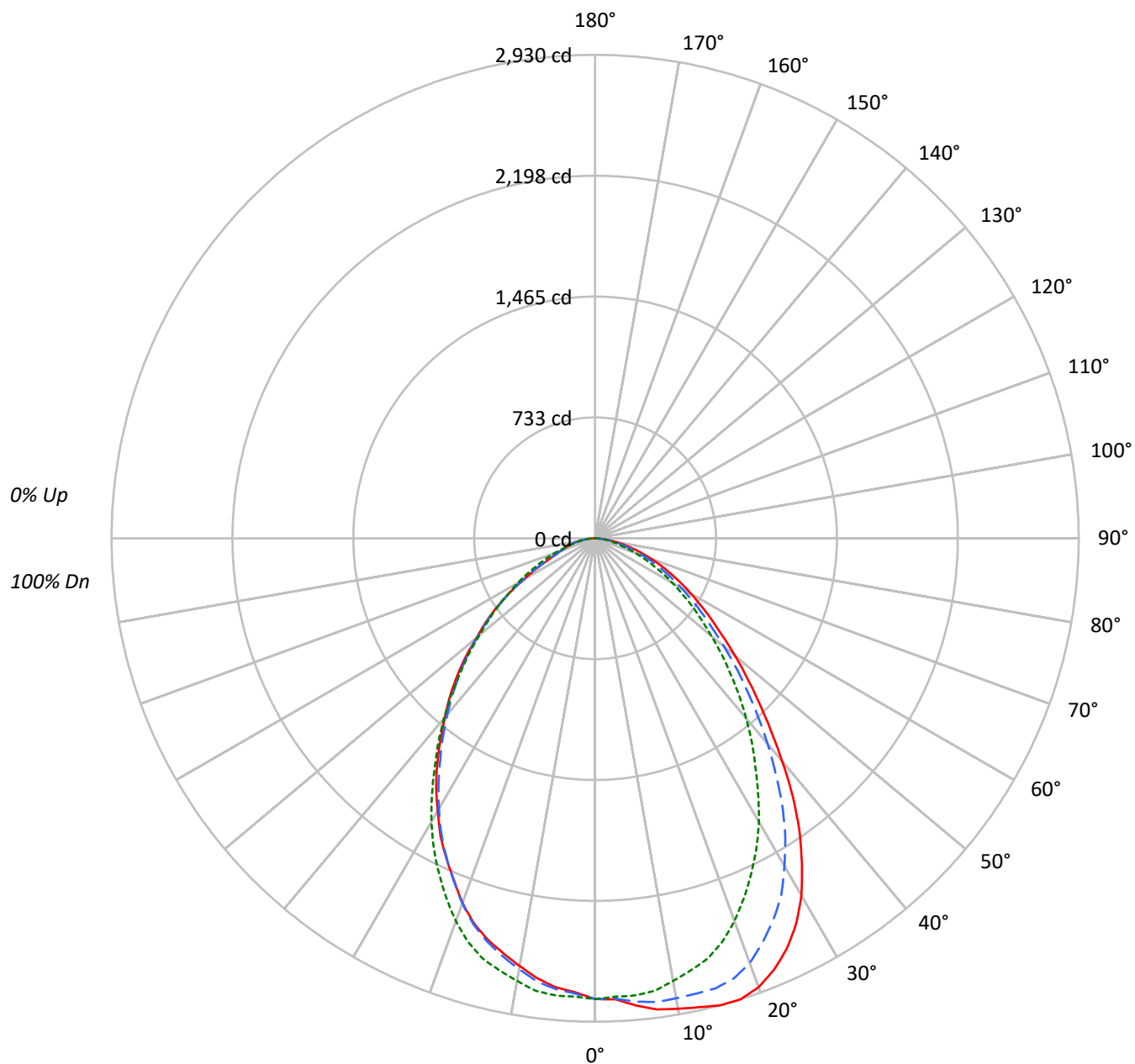
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	100	108	104	101	98		100	97	95			96	94	92			93
2	102	95	89	84	100	93	88	83		90	85	81			87	83	80			84
3	94	85	78	72	92	84	77	72		81	75	71			78	73	69			76
4	87	77	69	63	85	75	68	63		73	67	62			71	65	61			69
5	81	70	61	56	79	68	61	55		66	60	55			65	59	54			63
6	75	63	55	49	74	62	55	49		61	54	49			59	53	48			58
7	70	58	50	44	69	57	50	44		56	49	44			54	48	44			53
8	66	53	46	40	64	53	45	40		51	45	40			50	44	40			49
9	62	49	42	37	60	49	42	37		48	41	36			47	41	36			46
10	58	46	38	34	57	45	38	33		44	38	33			43	37	33			43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	153091	153091	153091
5°	156405	153043	150313
10°	161186	151634	146535
15°	166284	149615	142901
20°	168925	143997	137095
25°	166147	135455	129225
30°	158183	125576	120746
35°	144253	113354	111574
40°	126136	101834	101283
45°	108546	89614	91684
50°	94351	78087	79716
55°	82406	68557	69274
60°	73207	59392	54371
65°	65325	49979	41574
70°	57478	40968	34846
75°	49288	32322	33127
80°	39746	27718	32517
85°	26418	23965	28808



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.4	4.8
10°-20°	752.7	13.8
20°-30°	1074.5	19.6
30°-40°	1125.5	20.6
40°-50°	947.6	17.3
50°-60°	674.5	12.3
60°-70°	394.8	7.2
70°-80°	186.8	3.4
80°-90°	48.0	0.9
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°	2091.6	38.2
0°-40°	3217.2	58.8
0°-60°	4839.3	88.5
0°-90°	5468.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5468.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2793	2793	2793	2793	2793	
5°	2842	2819	2781	2743	2732	273
15°	2930	2823	2636	2529	2518	827
25°	2747	2552	2239	2133	2136	1257
35°	2156	1976	1694	1637	1667	1339
45°	1400	1297	1156	1160	1183	1087
55°	862	790	717	717	725	777
65°	504	446	385	324	320	502
75°	233	195	153	149	156	250
85°	42	34	38	46	46	54
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°	2792.6	2792.6	2792.6	2792.6	2792.6	2792.6	2792.6	2792.6	2792.6
2.5°	2796.4	2796.4	2792.6	2788.8	2781.1	2769.8	2762.1	2754.5	2754.5
5°	2842.2	2834.6	2819.3	2800.3	2781.1	2758.3	2743.0	2731.5	2731.5
7.5°	2880.4	2865.1	2834.6	2800.3	2765.9	2735.3	2708.7	2693.5	2689.6
10°	2895.6	2876.6	2830.8	2777.3	2724.0	2682.0	2651.5	2632.4	2632.4
12.5°	2910.9	2887.9	2826.9	2750.6	2682.0	2624.7	2594.2	2578.9	2575.2
15°	2929.9	2899.4	2823.1	2727.8	2636.2	2571.4	2529.4	2517.9	2517.9
17.5°	2929.9	2891.8	2796.4	2678.2	2563.7	2491.2	2453.1	2441.6	2445.4
20°	2895.6	2853.6	2739.2	2594.2	2468.3	2392.0	2353.8	2346.2	2350.0
22.5°	2830.8	2781.1	2651.5	2495.1	2357.7	2277.5	2243.2	2243.2	2239.4
25°	2746.8	2693.5	2552.2	2388.2	2239.4	2159.3	2132.6	2136.4	2136.4
27.5°	2636.2	2582.7	2441.6	2266.2	2117.3	2037.2	2018.2	2025.8	2029.6
30°	2498.9	2441.6	2292.8	2121.1	1983.8	1903.7	1892.2	1903.7	1907.5
32.5°	2331.0	2289.0	2144.1	1968.5	1838.9	1770.1	1766.3	1777.8	1793.1
35°	2155.5	2109.8	1976.2	1815.9	1693.8	1636.7	1636.7	1655.7	1667.2
37.5°	1964.7	1918.9	1796.9	1663.3	1560.4	1506.9	1514.6	1533.6	1537.4
40°	1762.6	1728.2	1625.2	1510.7	1423.0	1381.0	1392.5	1411.6	1415.3
42.5°	1571.7	1541.2	1457.3	1354.3	1289.5	1258.9	1274.2	1297.2	1304.7
45°	1400.1	1365.8	1297.2	1209.4	1155.9	1140.6	1159.8	1175.1	1182.6
47.5°	1243.7	1213.2	1155.9	1075.8	1037.7	1030.0	1049.1	1056.8	1064.3
50°	1106.3	1075.8	1018.6	946.2	915.6	915.6	930.9	938.5	934.7
52.5°	972.8	946.2	892.7	831.6	812.6	812.6	824.1	827.9	835.4
55°	862.2	835.4	789.7	732.5	717.3	709.6	717.3	717.3	724.8
57.5°	759.1	736.3	694.3	640.9	621.9	614.2	610.4	606.6	614.2
60°	667.7	648.5	602.7	557.0	541.7	522.6	507.4	492.1	495.9
62.5°	583.7	564.6	522.6	476.9	461.6	434.9	415.8	396.8	404.3
65°	503.6	484.6	446.3	408.3	385.3	354.8	324.3	312.8	320.5
67.5°	431.1	415.8	377.7	339.5	320.5	286.2	255.6	255.6	259.4
70°	358.6	343.3	312.8	278.5	255.6	225.1	213.6	217.4	217.4
72.5°	293.7	282.3	251.7	221.2	198.4	179.3	179.3	183.1	186.9
75°	232.7	225.1	194.6	167.9	152.6	141.1	148.8	152.6	156.4
77.5°	179.3	167.9	144.9	125.9	114.4	118.3	125.9	129.7	133.6
80°	125.9	122.1	103.0	91.6	87.8	91.6	99.1	103.0	103.0
82.5°	80.1	76.3	64.8	61.0	61.0	64.8	72.5	72.5	72.5
85°	42.0	38.1	34.3	34.3	38.1	42.0	45.8	45.8	45.8
87.5°	15.3	11.5	15.3	15.3	19.0	19.0	19.0	19.0	19.0
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)