

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: P583035

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583035
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-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: 5705.5 lumens
Efficiency: N/A
Efficacy: 109.7 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

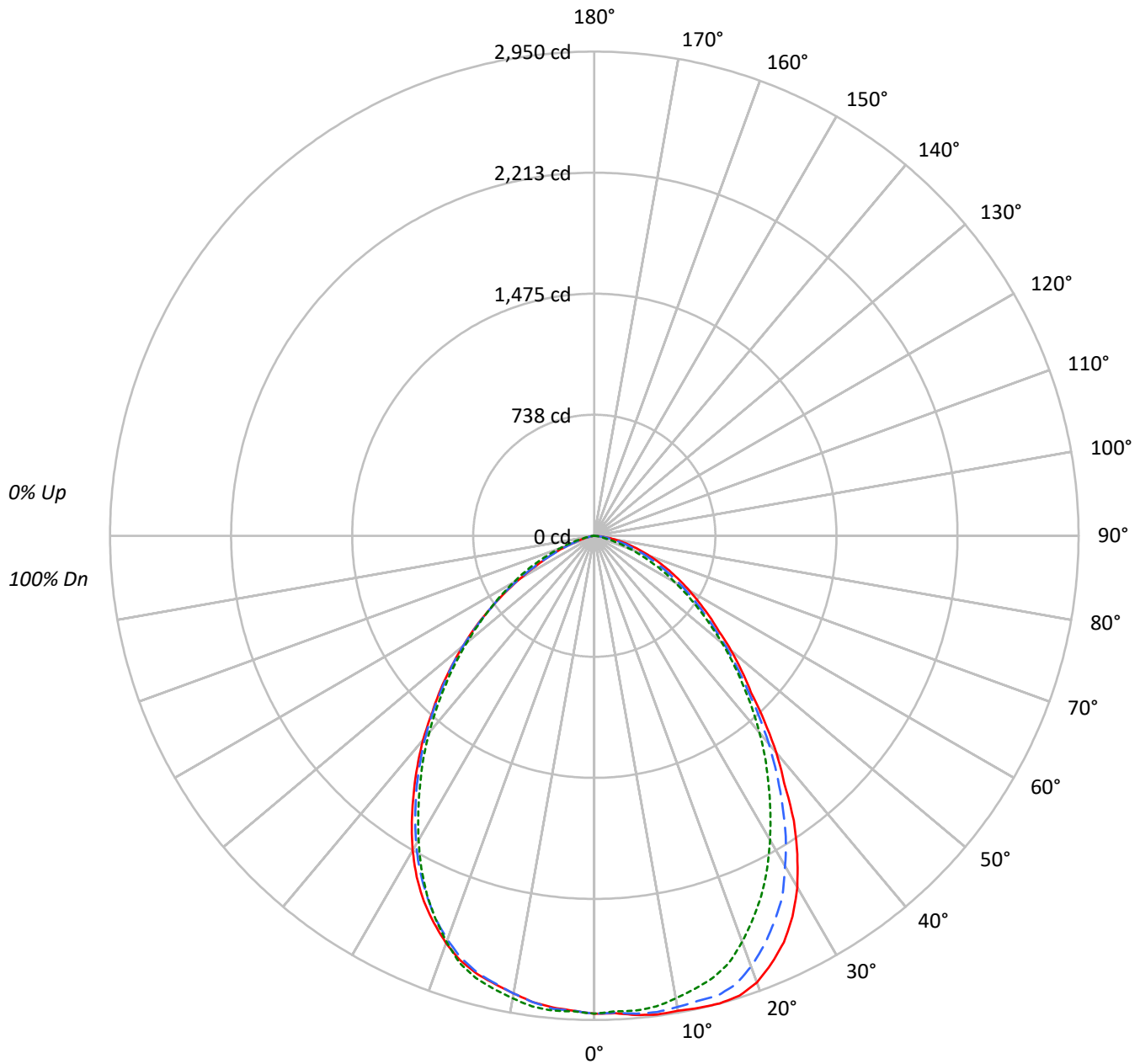
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	159620	159620	159620
5°	161286	159811	158766
10°	163574	159327	157623
15°	167419	158321	156806
20°	168977	153611	154060
25°	165276	145883	148660
30°	156537	135521	140110
35°	141743	123861	128459
40°	123438	111967	116067
45°	104740	99119	102670
50°	92765	86573	88858
55°	81698	74043	73670
60°	73218	62352	57320
65°	65338	49992	41081
70°	57494	36080	25693
75°	48504	21816	14551
80°	37347	9629	5998
85°	21574	2390	2390



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.4	4.8
10°-20°	794.4	13.9
20°-30°	1148.3	20.1
30°-40°	1208.2	21.2
40°-50°	1015.7	17.8
50°-60°	712.9	12.5
60°-70°	392.2	6.9
70°-80°	139.2	2.4
80°-90°	18.2	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°	2219.0	38.9
0°-40°	3427.3	60.1
0°-60°	5155.9	90.4
0°-90°	5705.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5705.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2912	2912	2912	2912	2912	
5°	2931	2923	2904	2893	2885	280
15°	2950	2900	2790	2755	2763	832
25°	2732	2595	2412	2416	2458	1250
35°	2118	1996	1851	1889	1920	1313
45°	1351	1313	1278	1309	1324	1060
55°	855	809	775	775	771	769
65°	504	450	385	317	317	501
75°	229	183	103	69	69	246
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°	2911.7	2911.7	2911.7	2911.7	2911.7	2911.7	2911.7	2911.7	2911.7
2.5°	2911.7	2911.7	2907.9	2907.9	2900.4	2900.4	2896.5	2896.5	2896.5
5°	2930.9	2930.9	2923.2	2911.7	2904.1	2892.7	2892.7	2888.9	2885.1
7.5°	2942.2	2938.5	2927.0	2911.7	2892.7	2873.6	2865.9	2869.7	2865.9
10°	2938.5	2930.9	2915.6	2885.1	2862.2	2835.4	2831.6	2827.8	2831.6
12.5°	2946.1	2934.7	2904.1	2865.9	2827.8	2797.3	2793.4	2793.4	2797.3
15°	2949.9	2938.5	2900.4	2843.1	2789.6	2759.1	2755.3	2759.1	2762.9
17.5°	2938.5	2923.2	2865.9	2789.6	2728.6	2698.1	2698.1	2705.6	2713.3
20°	2896.5	2873.6	2793.4	2701.9	2633.1	2610.3	2617.9	2633.1	2640.8
22.5°	2820.2	2793.4	2701.9	2598.8	2526.3	2507.3	2526.3	2545.5	2553.0
25°	2732.4	2701.9	2595.0	2488.2	2411.8	2389.0	2415.7	2446.2	2457.7
27.5°	2614.1	2579.8	2480.5	2358.4	2282.1	2270.7	2301.2	2335.5	2343.2
30°	2472.9	2434.7	2324.1	2209.6	2140.9	2137.1	2171.4	2201.9	2213.4
32.5°	2301.2	2266.9	2171.4	2056.9	1995.8	1995.8	2030.3	2056.9	2068.4
35°	2118.0	2079.8	1995.8	1900.5	1850.8	1854.7	1889.0	1908.1	1919.5
37.5°	1900.5	1889.0	1824.2	1744.0	1709.7	1717.2	1744.0	1759.2	1770.7
40°	1724.9	1694.4	1652.4	1587.6	1564.6	1572.3	1598.9	1614.2	1621.9
42.5°	1534.1	1515.1	1480.6	1434.9	1419.6	1431.1	1454.0	1465.4	1461.6
45°	1351.0	1347.1	1312.8	1286.0	1278.5	1293.7	1309.0	1320.3	1324.3
47.5°	1217.4	1202.0	1171.5	1152.5	1144.9	1160.2	1175.4	1183.0	1183.0
50°	1087.7	1072.4	1041.9	1022.7	1015.1	1030.4	1041.9	1049.4	1041.9
52.5°	957.9	942.6	915.9	893.0	889.1	896.8	900.6	904.4	912.1
55°	854.8	839.6	809.1	782.3	774.7	778.5	774.7	774.7	770.8
57.5°	755.6	740.3	709.8	679.3	667.8	664.0	652.5	648.8	645.0
60°	667.8	648.8	618.2	583.9	568.7	553.4	534.2	522.8	522.8
62.5°	583.9	564.8	530.5	499.9	477.0	450.4	419.7	404.5	404.5
65°	503.7	488.5	450.4	415.9	385.4	351.1	316.7	309.1	316.7
67.5°	427.4	412.2	373.9	339.6	301.4	259.6	229.0	229.0	236.6
70°	358.7	343.4	309.1	267.1	225.1	183.1	160.3	160.3	160.3
72.5°	293.9	278.6	240.4	202.3	160.3	118.3	106.8	110.7	106.8
75°	229.0	217.6	183.1	141.3	103.0	72.5	68.7	64.8	68.7
77.5°	171.8	160.3	129.8	91.6	57.3	42.0	38.2	38.2	38.2
80°	118.3	106.8	84.0	53.5	30.5	19.0	19.0	19.0	19.0
82.5°	72.5	61.0	45.8	26.7	11.5	11.5	11.5	11.5	11.5
85°	34.3	26.7	19.0	7.7	3.8	3.8	3.8	3.8	3.8
87.5°	7.7	7.7	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)