

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: P583024

Luminaire Tested: **HC655D010-HM64560830-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583024
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC655D010-HM64560830-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5055.0 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

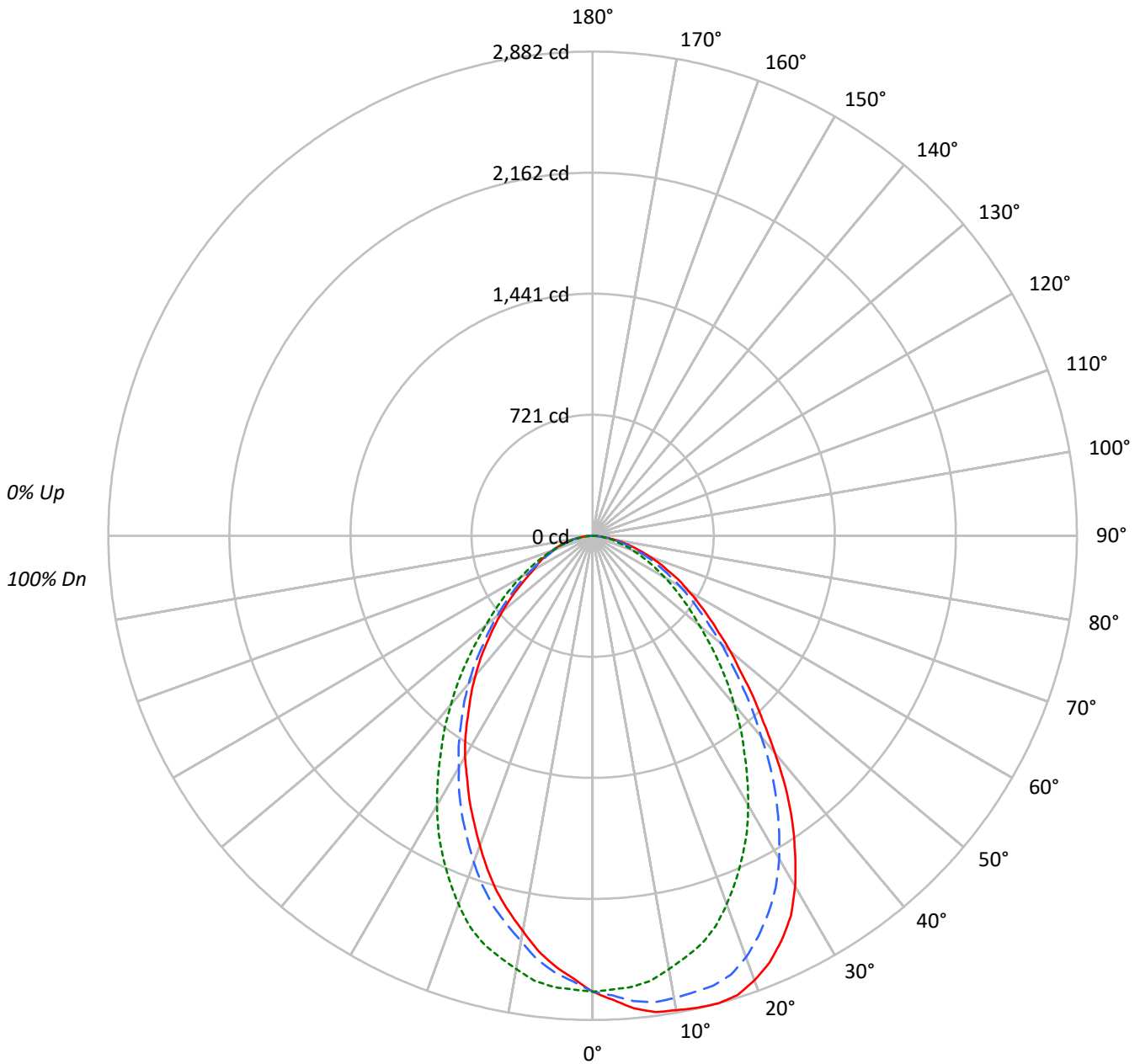
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76								
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66								
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58								
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51								
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46								
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42								
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38								
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34								
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	148765	148765	148765
5°	155365	148332	141498
10°	159600	145778	132969
15°	163554	142611	124581
20°	164281	136150	114419
25°	160830	127471	104940
30°	152593	117214	96179
35°	138584	105350	86277
40°	120755	93833	77631
45°	104484	82109	68247
50°	91264	70701	59810
55°	80638	62144	51305
60°	72483	54458	44448
65°	64910	47372	43117
70°	57958	40391	40391
75°	50283	34038	37914
80°	40378	28823	34569
85°	27550	25285	29814



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.0	5.0
10°-20°	709.0	14.0
20°-30°	988.0	19.5
30°-40°	1018.0	20.1
40°-50°	843.7	16.7
50°-60°	606.3	12.0
60°-70°	386.1	7.6
70°-80°	198.3	3.9
80°-90°	50.4	1.0
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°	1952.1	38.6
0°-40°	2970.1	58.8
0°-60°	4420.1	87.4
0°-90°	5055.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5055.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2714	2714	2714	2714	2714	
5°	2823	2780	2696	2608	2571	271
15°	2882	2772	2513	2283	2195	812
25°	2659	2476	2107	1837	1735	1218
35°	2071	1903	1574	1366	1289	1286
45°	1348	1253	1059	924	880	1043
55°	844	774	650	577	537	760
65°	500	446	365	318	332	501
75°	237	204	161	168	179	253
85°	44	40	40	44	47	56
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°	2713.7	2713.7	2713.7	2713.7	2713.7	2713.7	2713.7	2713.7	2713.7
2.5°	2764.9	2753.9	2739.2	2724.7	2702.8	2677.2	2655.2	2648.0	2637.0
5°	2823.3	2808.7	2779.5	2742.9	2695.5	2648.0	2607.8	2582.3	2571.3
7.5°	2859.8	2841.6	2801.3	2739.2	2669.9	2600.5	2542.0	2505.5	2490.9
10°	2867.1	2848.9	2794.1	2710.0	2618.8	2523.8	2450.7	2406.9	2388.7
12.5°	2878.1	2852.6	2783.1	2684.5	2567.6	2458.0	2366.7	2311.9	2293.7
15°	2881.8	2852.6	2772.1	2651.6	2512.8	2381.4	2282.7	2216.9	2195.1
17.5°	2867.1	2834.2	2739.2	2593.1	2436.2	2297.4	2180.5	2111.1	2081.8
20°	2816.0	2779.5	2669.9	2505.5	2333.8	2187.7	2067.3	1994.2	1961.3
22.5°	2750.2	2702.8	2578.6	2403.3	2224.3	2070.8	1950.4	1877.3	1844.4
25°	2658.9	2615.1	2476.3	2290.1	2107.4	1946.7	1837.2	1760.4	1734.9
27.5°	2553.0	2501.9	2359.5	2173.2	1986.8	1826.2	1720.3	1650.9	1618.0
30°	2410.6	2363.0	2220.6	2034.4	1851.7	1702.0	1592.4	1534.0	1519.4
32.5°	2242.6	2202.4	2063.6	1888.3	1713.0	1574.2	1482.9	1420.8	1406.1
35°	2070.8	2023.4	1902.9	1738.5	1574.2	1450.0	1366.0	1311.2	1289.2
37.5°	1884.6	1840.7	1738.5	1592.4	1446.3	1329.5	1256.5	1208.9	1187.0
40°	1687.4	1654.5	1559.5	1442.7	1311.2	1208.9	1146.8	1106.7	1084.8
42.5°	1504.8	1471.9	1406.1	1296.6	1187.0	1095.7	1040.9	1004.4	986.1
45°	1347.7	1318.5	1252.8	1157.8	1059.1	982.5	924.0	898.5	880.3
47.5°	1190.7	1176.0	1117.6	1029.9	938.7	872.9	832.7	803.5	788.9
50°	1070.1	1051.9	997.2	905.8	829.0	777.9	741.4	715.8	701.3
52.5°	945.9	927.7	876.6	799.8	737.8	690.3	653.7	631.8	617.3
55°	843.7	829.0	774.3	704.9	650.2	610.0	577.1	551.5	536.8
57.5°	748.7	734.2	682.9	617.3	569.7	533.3	504.1	482.1	463.9
60°	661.1	650.2	599.0	536.8	496.7	460.2	434.6	416.4	405.4
62.5°	584.4	562.5	518.6	463.9	427.3	398.1	372.5	361.6	368.9
65°	500.4	489.4	445.6	398.1	365.2	336.0	317.8	325.1	332.4
67.5°	431.0	416.4	379.9	336.0	306.8	284.9	274.0	288.5	292.2
70°	361.6	347.0	314.1	277.5	252.0	237.4	237.4	248.3	252.0
72.5°	295.9	284.9	255.6	226.4	208.2	197.2	204.5	211.9	215.5
75°	237.4	226.4	204.5	179.0	160.7	160.7	168.0	175.3	179.0
77.5°	182.7	175.3	153.4	135.1	127.9	127.9	135.1	138.8	142.4
80°	127.9	120.5	109.5	98.7	91.3	98.7	105.9	105.9	109.5
82.5°	84.0	80.3	73.0	65.8	65.8	69.4	73.0	76.7	76.7
85°	43.8	43.8	40.2	36.6	40.2	43.8	43.8	47.4	47.4
87.5°	14.6	14.6	14.6	14.6	18.2	18.2	18.2	18.2	18.2
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)