

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: P583097

Luminaire Tested: **HC655D010-HM64560930-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583097
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-HM64560930-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4814.7 lumens
Efficiency: N/A
Efficacy: 92.6 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

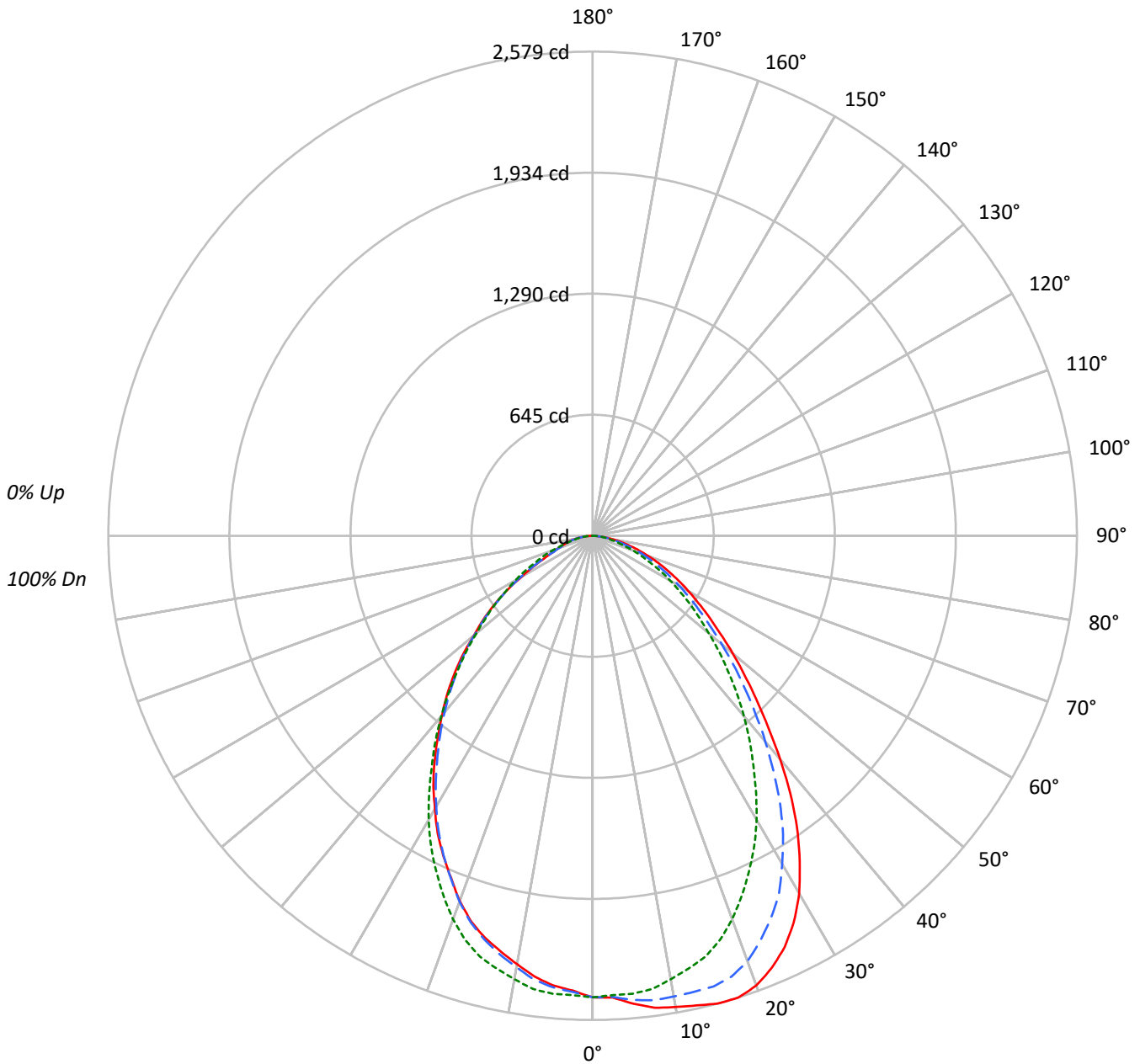
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87																			
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76																			
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66																			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58																			
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52																			
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	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	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	134775	134775	134775
5°	137695	134740	132335
10°	141903	133492	129006
15°	146391	131715	125807
20°	148716	126775	120696
25°	146271	119251	113771
30°	139256	110555	106301
35°	127000	99802	98223
40°	111044	89654	89174
45°	95560	78892	80722
50°	83068	68748	70181
55°	72542	60347	60987
60°	64436	52287	47869
65°	57516	44000	36593
70°	50601	36064	30678
75°	43400	28467	29166
80°	34979	24372	28634
85°	23210	21134	25348



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.8	4.8
10°-20°	662.7	13.8
20°-30°	946.0	19.6
30°-40°	990.9	20.6
40°-50°	834.3	17.3
50°-60°	593.8	12.3
60°-70°	347.5	7.2
70°-80°	164.5	3.4
80°-90°	42.3	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°	1841.4	38.2
0°-40°	2832.3	58.8
0°-60°	4260.3	88.5
0°-90°	4814.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4814.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2458	2458	2458	2458	2458	
5°	2502	2482	2448	2415	2405	240
15°	2579	2485	2321	2227	2217	728
25°	2418	2247	1972	1877	1881	1107
35°	1898	1740	1491	1441	1468	1179
45°	1233	1142	1018	1021	1041	957
55°	759	695	631	631	638	684
65°	443	393	339	286	282	442
75°	205	171	134	131	138	220
85°	37	30	34	40	40	48
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°	2458.5	2458.5	2458.5	2458.5	2458.5	2458.5	2458.5	2458.5	2458.5
2.5°	2461.8	2461.8	2458.5	2455.2	2448.5	2438.4	2431.7	2424.9	2424.9
5°	2502.2	2495.4	2482.1	2465.3	2448.5	2428.3	2414.9	2404.8	2404.8
7.5°	2535.8	2522.3	2495.4	2465.3	2435.0	2408.1	2384.6	2371.2	2367.8
10°	2549.2	2532.4	2492.1	2445.0	2398.1	2361.1	2334.3	2317.5	2317.5
12.5°	2562.6	2542.5	2488.8	2421.6	2361.1	2310.8	2283.9	2270.4	2267.1
15°	2579.4	2552.6	2485.4	2401.4	2320.8	2263.7	2226.8	2216.7	2216.7
17.5°	2579.4	2545.8	2461.8	2357.7	2257.0	2193.2	2159.6	2149.5	2152.8
20°	2549.2	2512.2	2411.5	2283.9	2173.1	2105.9	2072.3	2065.5	2068.9
22.5°	2492.1	2448.5	2334.3	2196.6	2075.6	2005.1	1974.9	1974.9	1971.5
25°	2418.2	2371.2	2246.9	2102.5	1971.5	1901.0	1877.4	1880.9	1880.9
27.5°	2320.8	2273.8	2149.5	1995.0	1864.1	1793.5	1776.7	1783.4	1786.8
30°	2199.9	2149.5	2018.6	1867.4	1746.5	1676.0	1665.9	1676.0	1679.3
32.5°	2052.2	2015.1	1887.6	1733.1	1618.8	1558.4	1555.1	1565.1	1578.6
35°	1897.7	1857.3	1739.7	1598.7	1491.3	1440.9	1440.9	1457.7	1467.7
37.5°	1729.7	1689.4	1581.9	1464.3	1373.7	1326.6	1333.4	1350.2	1353.5
40°	1551.7	1521.5	1430.7	1330.0	1252.8	1215.8	1225.9	1242.7	1246.1
42.5°	1383.8	1356.9	1283.0	1192.3	1135.2	1108.4	1121.8	1141.9	1148.7
45°	1232.6	1202.4	1141.9	1064.7	1017.6	1004.2	1021.0	1034.4	1041.2
47.5°	1094.9	1068.0	1017.6	947.1	913.5	906.9	923.6	930.3	937.1
50°	974.0	947.1	896.7	833.0	806.1	806.1	819.5	826.2	822.9
52.5°	856.5	833.0	785.9	732.2	715.4	715.4	725.4	728.8	735.6
55°	759.0	735.6	695.2	644.9	631.4	624.7	631.4	631.4	638.1
57.5°	668.4	648.2	611.3	564.3	547.5	540.7	537.4	534.0	540.7
60°	587.7	570.9	530.7	490.4	476.9	460.2	446.7	433.2	436.6
62.5°	513.9	497.1	460.2	419.8	406.4	382.9	366.1	349.3	356.0
65°	443.4	426.6	393.0	359.4	339.2	312.3	285.5	275.4	282.1
67.5°	379.5	366.1	332.5	298.9	282.1	251.9	225.0	225.0	228.4
70°	315.7	302.3	275.4	245.2	225.0	198.2	188.1	191.4	191.4
72.5°	258.6	248.5	221.7	194.8	174.6	157.8	157.8	161.2	164.6
75°	204.9	198.2	171.3	147.8	134.4	124.2	131.0	134.4	137.7
77.5°	157.8	147.8	127.6	110.8	100.8	104.1	110.8	114.2	117.6
80°	110.8	107.5	90.7	80.6	77.2	80.6	87.3	90.7	90.7
82.5°	70.5	67.2	57.1	53.7	53.7	57.1	63.8	63.8	63.8
85°	36.9	33.6	30.3	30.3	33.6	36.9	40.3	40.3	40.3
87.5°	13.5	10.1	13.5	13.5	16.8	16.8	16.8	16.8	16.8
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)