

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: P583041

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC655D010-HM64560835-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4835.4 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

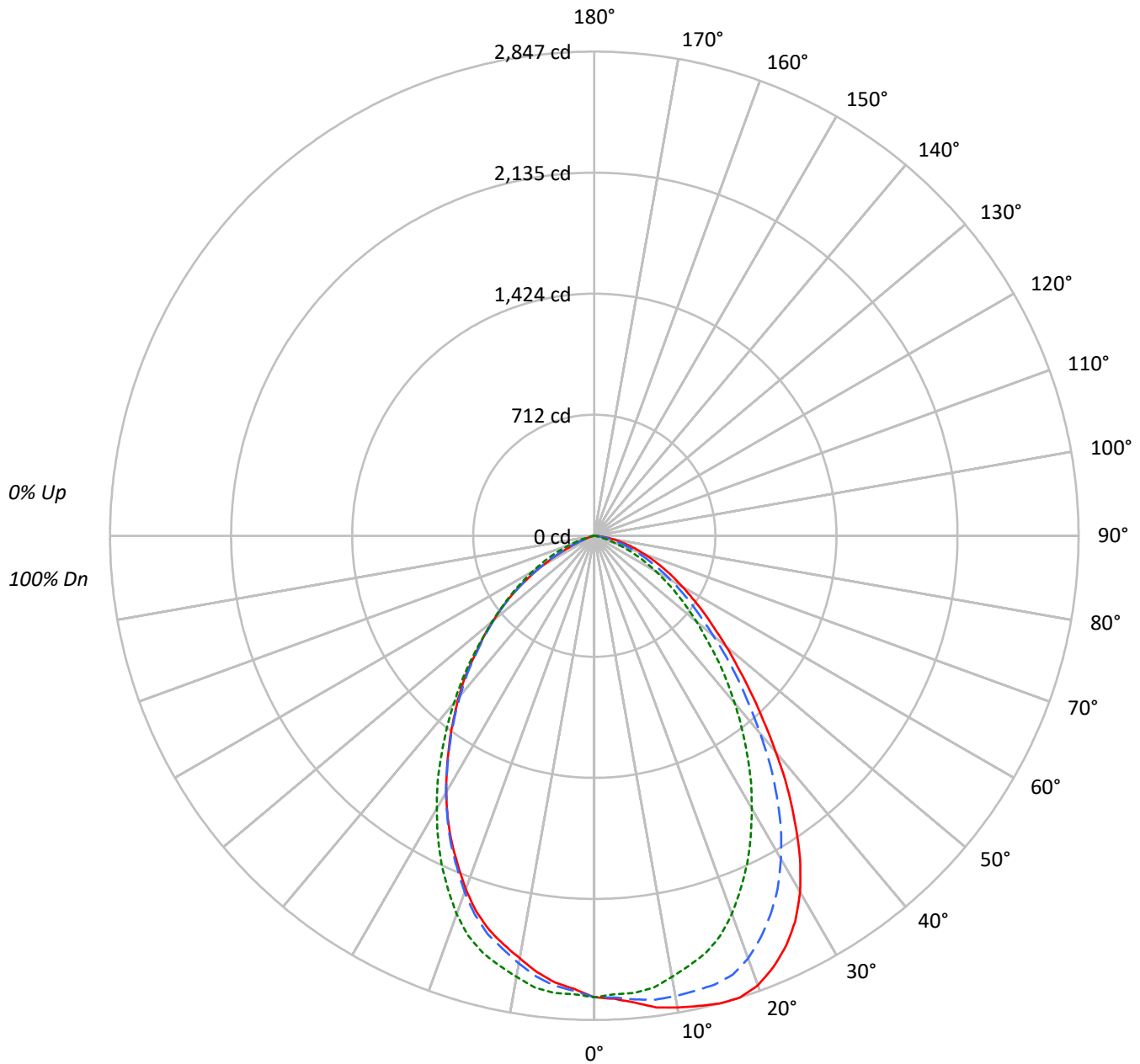
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	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	100		
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89		
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78		
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69		
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61		
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54		
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49		
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44		
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40		
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37		
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	148749	148749	148749
5°	151628	148481	145118
10°	156783	146579	140423
15°	161579	144036	136017
20°	164083	138035	128905
25°	161126	128578	120037
30°	153163	117164	110156
35°	137661	104721	99347
40°	118801	91765	88759
45°	100592	78993	76930
50°	86249	66718	66070
55°	74769	56170	53981
60°	65280	45599	38495
65°	57425	35140	21286
70°	49544	23241	10386
75°	42044	11332	4024
80°	32517	4830	2431
85°	19184	2390	2390



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.1	5.3
10°-20°	724.1	15.0
20°-30°	1019.7	21.1
30°-40°	1041.8	21.5
40°-50°	840.0	17.4
50°-60°	563.4	11.7
60°-70°	285.1	5.9
70°-80°	91.1	1.9
80°-90°	14.0	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°	1999.9	41.4
0°-40°	3041.7	62.9
0°-60°	4445.1	91.9
0°-90°	4835.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4835.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2713	2713	2713	2713	2713	
5°	2755	2736	2698	2656	2637	265
15°	2847	2732	2538	2423	2397	804
25°	2664	2454	2126	1996	1984	1220
35°	2057	1870	1565	1477	1484	1280
45°	1298	1194	1019	985	992	1009
55°	782	694	588	561	565	704
65°	443	366	271	179	164	442
75°	198	141	54	19	19	213
85°	30	15	4	4	4	41
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°	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4
2.5°	2724.9	2721.0	2717.2	2709.5	2698.2	2686.7	2679.0	2671.5	2667.7
5°	2755.4	2747.8	2736.3	2721.0	2698.2	2671.5	2656.2	2640.9	2637.1
7.5°	2797.3	2782.1	2751.5	2717.2	2679.0	2640.9	2614.2	2598.9	2587.5
10°	2816.5	2789.8	2747.8	2690.5	2633.2	2587.5	2553.2	2530.2	2522.6
12.5°	2831.7	2801.2	2740.2	2663.8	2587.5	2526.4	2488.2	2469.2	2461.6
15°	2847.0	2816.5	2732.5	2633.2	2537.9	2465.4	2423.4	2404.3	2396.6
17.5°	2847.0	2805.0	2705.8	2579.9	2465.4	2377.6	2335.6	2316.6	2312.6
20°	2812.6	2766.8	2644.7	2495.9	2366.1	2266.9	2228.8	2217.3	2209.6
22.5°	2747.8	2694.3	2556.9	2389.1	2247.8	2152.5	2110.5	2102.8	2095.2
25°	2663.8	2610.4	2453.9	2274.6	2125.7	2030.3	1996.0	1988.3	1984.5
27.5°	2556.9	2499.7	2335.6	2152.5	1992.2	1900.5	1870.0	1870.0	1866.2
30°	2419.6	2354.6	2194.3	2011.2	1850.9	1766.9	1744.1	1744.1	1740.2
32.5°	2251.6	2186.8	2041.7	1866.2	1713.6	1625.8	1606.6	1614.3	1610.5
35°	2057.0	2003.5	1870.0	1698.3	1564.8	1484.5	1477.0	1484.5	1484.5
37.5°	1862.4	1812.7	1698.3	1549.4	1423.5	1351.0	1351.0	1362.5	1358.6
40°	1660.1	1621.9	1515.1	1385.3	1282.3	1232.7	1225.0	1236.5	1240.3
42.5°	1469.3	1438.8	1347.2	1240.3	1148.7	1099.1	1110.6	1118.2	1122.0
45°	1297.5	1267.0	1194.5	1083.9	1018.9	984.6	984.6	996.1	992.3
47.5°	1144.9	1122.0	1049.4	942.6	885.4	870.1	877.8	885.4	885.4
50°	1011.3	977.0	908.3	824.3	782.3	763.3	770.8	774.7	774.7
52.5°	885.4	862.5	793.8	717.5	679.3	667.8	667.8	671.7	671.7
55°	782.3	755.6	694.5	618.2	587.7	572.5	561.0	557.2	564.8
57.5°	683.2	660.2	603.0	530.5	496.2	480.9	457.9	450.4	457.9
60°	595.4	576.2	519.0	450.4	415.9	385.4	358.7	343.4	351.1
62.5°	519.0	496.2	438.9	381.6	343.4	309.1	267.1	244.3	255.6
65°	442.7	423.6	366.4	309.1	270.9	229.0	179.3	164.1	164.1
67.5°	373.9	354.9	301.5	251.9	206.1	156.5	110.7	106.8	110.7
70°	309.1	290.1	244.3	194.6	145.0	95.3	64.8	64.8	64.8
72.5°	255.6	232.8	190.8	141.3	91.6	49.6	34.3	38.2	38.2
75°	198.5	179.3	141.3	95.3	53.5	23.0	19.0	19.0	19.0
77.5°	148.8	133.6	99.3	61.0	26.7	7.7	7.7	7.7	7.7
80°	103.0	87.8	64.8	38.2	15.3	7.7	7.7	7.7	7.7
82.5°	61.0	53.5	38.2	19.0	7.7	3.8	3.8	3.8	3.8
85°	30.5	26.7	15.3	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)