

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: P583053

Luminaire Tested: **HC655D010-HM64560840-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583053
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-HM64560840-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5941.6 lumens
Efficiency: N/A
Efficacy: 114.3 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

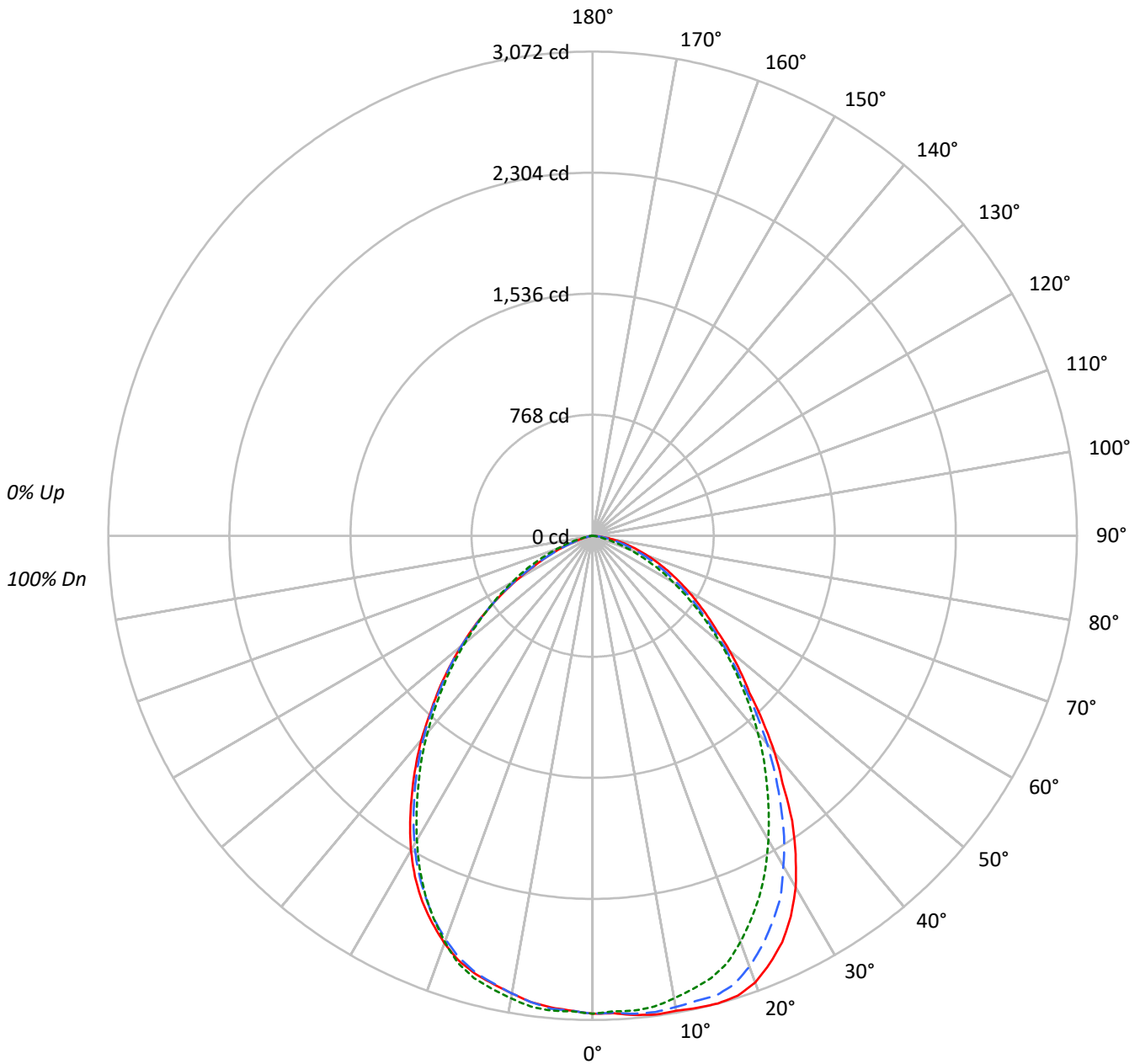
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77																			
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67																			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59																			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53																			
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47																			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42																			
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38																			
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35																			
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	166231	166231	166231
5°	167956	166426	165336
10°	170343	165918	164142
15°	174348	164876	163298
20°	175966	159970	160436
25°	172117	151920	154805
30°	163019	141129	145909
35°	147606	128994	133773
40°	128548	116597	120869
45°	109066	103212	106910
50°	96594	90155	92526
55°	85082	77101	76728
60°	76255	64918	59688
65°	68036	52068	42780
70°	59882	37586	26751
75°	50516	22727	15166
80°	38894	10039	6282
85°	22455	2516	2516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.8	4.8
10°-20°	827.2	13.9
20°-30°	1195.8	20.1
30°-40°	1258.2	21.2
40°-50°	1057.7	17.8
50°-60°	742.4	12.5
60°-70°	408.4	6.9
70°-80°	145.0	2.4
80°-90°	19.0	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°	2310.9	38.9
0°-40°	3569.1	60.1
0°-60°	5369.2	90.4
0°-90°	5941.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5941.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3032	3032	3032	3032	3032	
5°	3052	3044	3024	3012	3004	292
15°	3072	3020	2905	2869	2877	867
25°	2846	2702	2512	2516	2559	1302
35°	2206	2078	1928	1967	1999	1367
45°	1407	1367	1331	1363	1379	1104
55°	890	842	807	807	803	801
65°	524	469	401	330	330	522
75°	238	191	107	72	72	256
85°	36	20	4	4	4	49
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°	3032.3	3032.3	3032.3	3032.3	3032.3	3032.3	3032.3	3032.3	3032.3
2.5°	3032.3	3032.3	3028.2	3028.2	3020.3	3020.3	3016.3	3016.3	3016.3
5°	3052.1	3052.1	3044.2	3032.3	3024.3	3012.4	3012.4	3008.4	3004.5
7.5°	3064.0	3060.1	3048.1	3032.3	3012.4	2992.5	2984.6	2988.5	2984.6
10°	3060.1	3052.1	3036.2	3004.5	2980.6	2952.8	2948.7	2944.8	2948.7
12.5°	3068.0	3056.0	3024.3	2984.6	2944.8	2913.0	2909.0	2909.0	2913.0
15°	3072.0	3060.1	3020.3	2960.7	2905.1	2873.3	2869.2	2873.3	2877.3
17.5°	3060.1	3044.2	2984.6	2905.1	2841.4	2809.7	2809.7	2817.7	2825.6
20°	3016.3	2992.5	2909.0	2813.6	2742.1	2718.3	2726.2	2742.1	2750.1
22.5°	2936.8	2909.0	2813.6	2706.3	2630.9	2611.0	2630.9	2650.7	2658.7
25°	2845.5	2813.6	2702.3	2591.1	2511.6	2487.7	2515.6	2547.4	2559.3
27.5°	2722.2	2686.5	2583.2	2456.0	2376.5	2364.6	2396.4	2432.1	2440.1
30°	2575.3	2535.5	2420.2	2301.1	2229.5	2225.5	2261.3	2293.0	2305.0
32.5°	2396.4	2360.6	2261.3	2142.1	2078.4	2078.4	2114.3	2142.1	2154.0
35°	2205.6	2165.8	2078.4	1979.0	1927.5	1931.4	1967.2	1987.1	1998.9
37.5°	1979.0	1967.2	1899.7	1816.1	1780.4	1788.3	1816.1	1832.1	1843.9
40°	1796.3	1764.4	1720.8	1653.2	1629.3	1637.3	1665.2	1681.0	1689.0
42.5°	1597.6	1577.8	1541.9	1494.2	1478.4	1490.3	1514.1	1526.1	1522.0
45°	1406.8	1402.8	1367.1	1339.3	1331.3	1347.2	1363.2	1375.0	1379.0
47.5°	1267.7	1251.9	1220.0	1200.2	1192.2	1208.1	1224.1	1232.0	1232.0
50°	1132.6	1116.8	1084.9	1065.1	1057.1	1073.0	1084.9	1092.9	1084.9
52.5°	997.5	981.7	953.7	930.0	925.9	933.9	937.9	941.9	949.8
55°	890.2	874.4	842.5	814.7	806.7	810.7	806.7	806.7	802.8
57.5°	786.8	771.0	739.1	707.4	695.5	691.5	679.5	675.6	671.6
60°	695.5	675.6	643.8	608.1	592.1	576.2	556.4	544.4	544.4
62.5°	608.1	588.2	552.3	520.6	496.7	468.9	437.1	421.3	421.3
65°	524.5	508.7	468.9	433.2	401.4	365.7	329.8	321.9	329.8
67.5°	445.0	429.2	389.4	353.7	314.0	270.2	238.5	238.5	246.4
70°	373.6	357.6	321.9	278.2	234.5	190.7	166.9	166.9	166.9
72.5°	306.0	290.1	250.3	210.6	166.9	123.2	111.3	115.2	111.3
75°	238.5	226.5	190.7	147.0	107.3	75.5	71.6	67.5	71.6
77.5°	178.9	166.9	135.1	95.3	59.6	43.8	39.7	39.7	39.7
80°	123.2	111.3	87.4	55.6	31.8	19.9	19.9	19.9	19.9
82.5°	75.5	63.5	47.7	27.8	11.9	11.9	11.9	11.9	11.9
85°	35.7	27.8	19.9	7.9	4.0	4.0	4.0	4.0	4.0
87.5°	7.9	7.9	4.0	4.0	0.0	4.0	4.0	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)