

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: P583017

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583017
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-HM64560830-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5460.5 lumens
Efficiency: N/A
Efficacy: 105.0 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

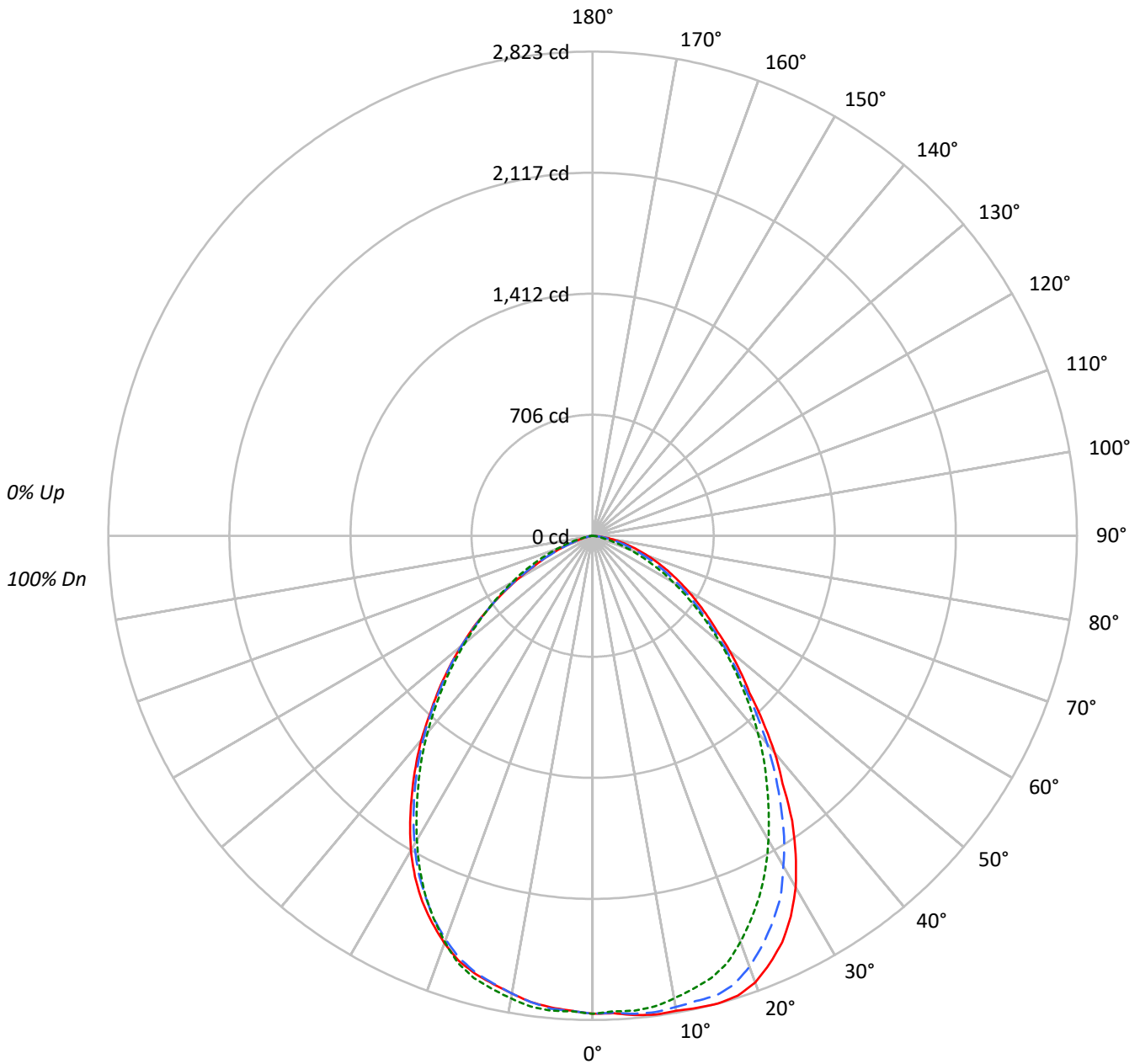
Input Watts (W): 52
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	152767	152767	152767
5°	154358	152944	151942
10°	156544	152480	150854
15°	160228	151522	150069
20°	161720	147013	147444
25°	158174	139623	142266
30°	149814	129704	134090
35°	135660	118541	122944
40°	118143	107158	111080
45°	100235	94855	98251
50°	88773	82854	85029
55°	78200	70860	70506
60°	70082	59666	54864
65°	62536	47852	39317
70°	55025	34541	24587
75°	46407	20906	13937
80°	35737	9218	5746
85°	20694	2327	2327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.5	4.8
10°-20°	760.2	13.9
20°-30°	1099.0	20.1
30°-40°	1156.4	21.2
40°-50°	972.1	17.8
50°-60°	682.3	12.5
60°-70°	375.3	6.9
70°-80°	133.3	2.4
80°-90°	17.4	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°	2123.7	38.9
0°-40°	3280.1	60.1
0°-60°	4934.5	90.4
0°-90°	5460.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5460.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2787	2787	2787	2787	2787	
5°	2805	2798	2779	2768	2761	268
15°	2823	2776	2670	2637	2644	797
25°	2615	2484	2308	2312	2352	1196
35°	2027	1910	1771	1808	1837	1256
45°	1293	1256	1224	1253	1267	1014
55°	818	774	741	741	738	736
65°	482	431	369	303	303	480
75°	219	175	99	66	66	235
85°	33	18	4	4	4	45
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°	2786.7	2786.7	2786.7	2786.7	2786.7	2786.7	2786.7	2786.7	2786.7
2.5°	2786.7	2786.7	2783.0	2783.0	2775.8	2775.8	2772.1	2772.1	2772.1
5°	2805.0	2805.0	2797.7	2786.7	2779.3	2768.5	2768.5	2764.8	2761.1
7.5°	2815.9	2812.2	2801.3	2786.7	2768.5	2750.1	2742.9	2746.6	2742.9
10°	2812.2	2805.0	2790.3	2761.1	2739.2	2713.7	2710.0	2706.3	2710.0
12.5°	2819.6	2808.6	2779.3	2742.9	2706.3	2677.1	2673.5	2673.5	2677.1
15°	2823.2	2812.2	2775.8	2720.9	2669.8	2640.6	2636.9	2640.6	2644.2
17.5°	2812.2	2797.7	2742.9	2669.8	2611.4	2582.1	2582.1	2589.5	2596.8
20°	2772.1	2750.1	2673.5	2585.8	2520.0	2498.1	2505.5	2520.0	2527.4
22.5°	2699.0	2673.5	2585.8	2487.3	2417.8	2399.6	2417.8	2436.0	2443.4
25°	2615.0	2585.8	2483.6	2381.3	2308.3	2286.4	2311.9	2341.2	2352.0
27.5°	2501.8	2468.9	2374.0	2257.2	2184.1	2173.2	2202.3	2235.2	2242.5
30°	2366.7	2330.2	2224.3	2114.7	2049.0	2045.3	2078.2	2107.4	2118.3
32.5°	2202.3	2169.5	2078.2	1968.6	1910.2	1910.2	1943.0	1968.6	1979.5
35°	2027.1	1990.5	1910.2	1818.9	1771.3	1775.0	1807.9	1826.2	1837.1
37.5°	1818.9	1807.9	1745.8	1669.1	1636.2	1643.5	1669.1	1683.8	1694.6
40°	1650.9	1621.7	1581.4	1519.3	1497.4	1504.8	1530.3	1544.9	1552.2
42.5°	1468.2	1450.0	1417.1	1373.2	1358.7	1369.6	1391.6	1402.4	1398.8
45°	1292.9	1289.2	1256.3	1230.8	1223.5	1238.1	1252.7	1263.7	1267.3
47.5°	1165.1	1150.5	1121.2	1103.0	1095.7	1110.2	1124.9	1132.2	1132.2
50°	1040.9	1026.3	997.0	978.8	971.5	986.1	997.0	1004.4	997.0
52.5°	916.7	902.2	876.6	854.6	850.9	858.3	861.9	865.6	872.9
55°	818.2	803.5	774.3	748.7	741.4	745.1	741.4	741.4	737.7
57.5°	723.2	708.5	679.3	650.1	639.2	635.5	624.5	620.8	617.3
60°	639.2	620.8	591.6	558.8	544.2	529.6	511.3	500.4	500.4
62.5°	558.8	540.5	507.6	478.4	456.5	431.0	401.7	387.2	387.2
65°	482.1	467.5	431.0	398.1	368.9	336.0	303.1	295.9	303.1
67.5°	409.1	394.4	358.0	325.1	288.5	248.3	219.1	219.1	226.4
70°	343.3	328.8	295.9	255.6	215.5	175.3	153.4	153.4	153.4
72.5°	281.2	266.6	230.1	193.5	153.4	113.2	102.2	105.9	102.2
75°	219.1	208.2	175.3	135.1	98.7	69.4	65.8	62.1	65.8
77.5°	164.3	153.4	124.2	87.7	54.8	40.2	36.6	36.6	36.6
80°	113.2	102.2	80.3	51.1	29.2	18.2	18.2	18.2	18.2
82.5°	69.4	58.4	43.8	25.6	11.0	11.0	11.0	11.0	11.0
85°	32.9	25.6	18.2	7.3	3.7	3.7	3.7	3.7	3.7
87.5°	7.3	7.3	3.7	3.7	0.0	3.7	3.7	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)