

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: P583169

Luminaire Tested: **HC660D010-HM64560830-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583169
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: HC660D010-HM64560830-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5457.0 lumens
Efficiency: N/A
Efficacy: 99.2 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

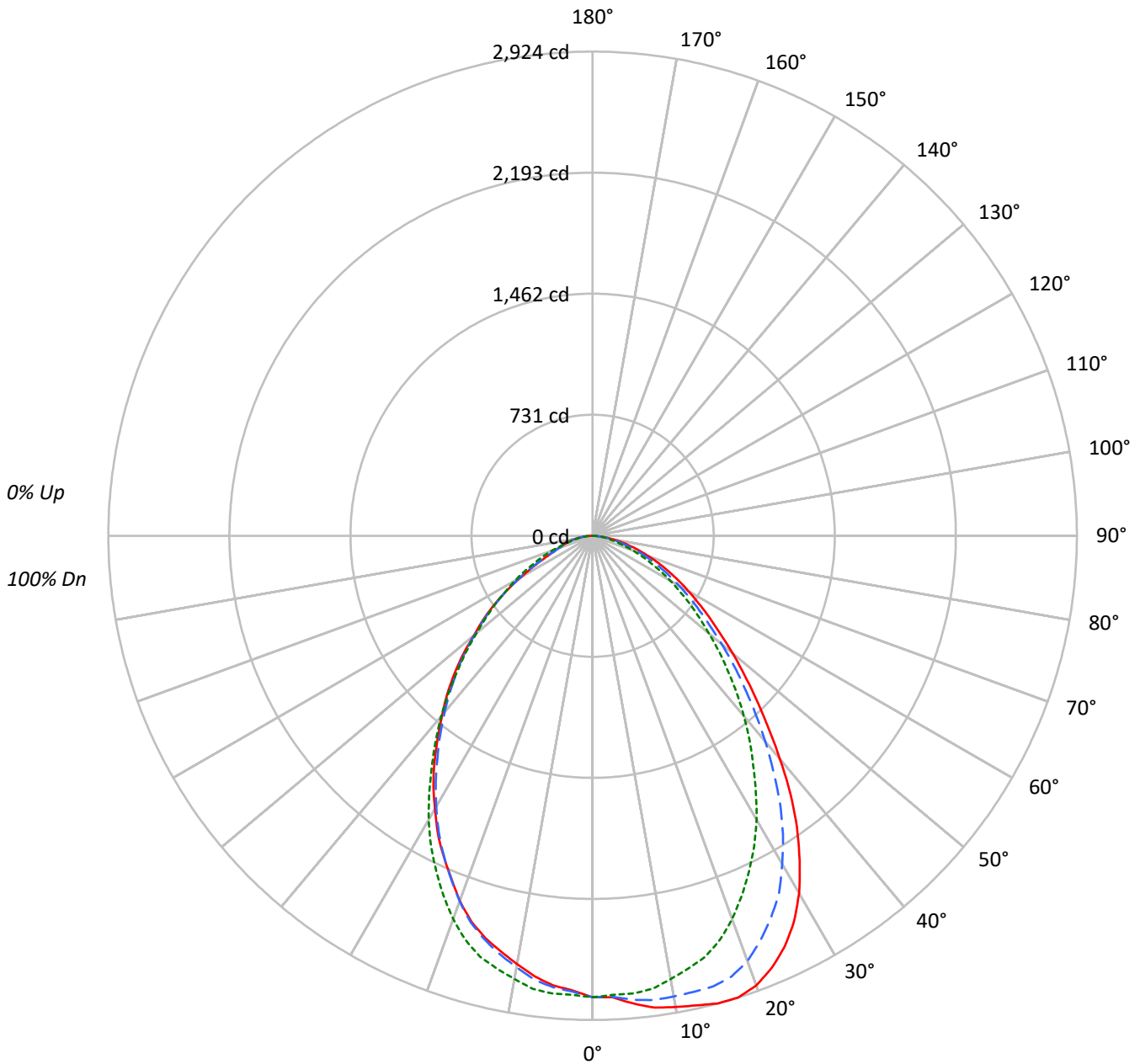
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				100				
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76				76				
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66				66				
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58				58				
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52				52				
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46				46				
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42				42				
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38				38				
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34				34				
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31				31				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	152756	152756	152756
5°	156064	152713	149989
10°	160835	151300	146218
15°	165920	149286	142589
20°	168557	143687	136804
25°	165790	135159	128941
30°	157834	125304	120487
35°	143938	113113	111327
40°	125864	101619	101068
45°	108314	89428	91490
50°	94146	77916	79545
55°	82234	68394	69130
60°	73042	59261	54250
65°	65182	49876	41470
70°	57365	40888	34782
75°	49182	32258	33042
80°	39652	27623	32454
85°	26355	23902	28745



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.8	4.8
10°-20°	751.1	13.8
20°-30°	1072.2	19.6
30°-40°	1123.1	20.6
40°-50°	945.6	17.3
50°-60°	673.0	12.3
60°-70°	393.9	7.2
70°-80°	186.4	3.4
80°-90°	48.0	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°	2087.1	38.2
0°-40°	3210.2	58.8
0°-60°	4828.7	88.5
0°-90°	5457.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5457.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2786	2786	2786	2786	2786	
5°	2836	2813	2775	2737	2726	272
15°	2924	2817	2630	2524	2512	825
25°	2741	2547	2234	2128	2132	1255
35°	2151	1972	1690	1633	1664	1336
45°	1397	1294	1154	1157	1180	1085
55°	860	788	716	716	723	775
65°	502	445	384	324	320	501
75°	232	194	152	148	156	249
85°	42	34	38	46	46	54
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°	2786.5	2786.5	2786.5	2786.5	2786.5	2786.5	2786.5	2786.5	2786.5
2.5°	2790.4	2790.4	2786.5	2782.7	2775.1	2763.7	2756.1	2748.4	2748.4
5°	2836.0	2828.4	2813.2	2794.1	2775.1	2752.3	2737.0	2725.6	2725.6
7.5°	2874.1	2858.9	2828.4	2794.1	2759.9	2729.5	2702.7	2687.6	2683.8
10°	2889.3	2870.3	2824.6	2771.3	2718.0	2676.1	2645.6	2626.7	2626.7
12.5°	2904.6	2881.7	2820.7	2744.7	2676.1	2619.0	2588.6	2573.3	2569.6
15°	2923.5	2893.2	2817.0	2721.8	2630.4	2565.8	2523.9	2512.4	2512.4
17.5°	2923.5	2885.5	2790.4	2672.4	2558.1	2485.8	2447.7	2436.3	2440.1
20°	2889.3	2847.5	2733.2	2588.6	2463.0	2386.8	2348.8	2341.1	2345.0
22.5°	2824.6	2775.1	2645.6	2489.6	2352.5	2272.6	2238.4	2238.4	2234.5
25°	2740.9	2687.6	2546.7	2383.0	2234.5	2154.6	2127.9	2131.7	2131.7
27.5°	2630.4	2577.2	2436.3	2261.3	2112.8	2032.8	2013.7	2021.4	2025.1
30°	2493.4	2436.3	2287.9	2116.5	1979.5	1899.6	1888.2	1899.6	1903.4
32.5°	2325.9	2284.0	2139.4	1964.3	1834.8	1766.3	1762.5	1774.0	1789.1
35°	2150.8	2105.1	1971.9	1812.0	1690.2	1633.1	1633.1	1652.1	1663.5
37.5°	1960.5	1914.8	1792.9	1659.7	1556.9	1503.7	1511.2	1530.3	1534.1
40°	1758.8	1724.5	1621.7	1507.5	1420.0	1378.0	1389.5	1408.5	1412.3
42.5°	1568.3	1538.0	1454.1	1351.4	1286.7	1256.3	1271.5	1294.3	1301.9
45°	1397.1	1362.9	1294.3	1206.7	1153.5	1138.2	1157.2	1172.4	1180.1
47.5°	1241.0	1210.6	1153.5	1073.5	1035.5	1027.8	1046.9	1054.4	1062.1
50°	1103.9	1073.5	1016.4	944.1	913.6	913.6	928.8	936.4	932.7
52.5°	970.7	944.1	890.7	829.9	810.8	810.8	822.2	826.1	833.6
55°	860.4	833.6	787.9	730.9	715.6	708.1	715.6	715.6	723.3
57.5°	757.6	734.7	692.8	639.6	620.5	612.8	609.1	605.3	612.8
60°	666.2	647.1	601.4	555.8	540.5	521.6	506.3	491.1	494.8
62.5°	582.4	563.4	521.6	475.9	460.6	434.0	415.0	395.9	403.6
65°	502.5	483.4	445.4	407.3	384.5	354.0	323.6	312.2	319.7
67.5°	430.2	415.0	376.8	338.8	319.7	285.5	255.1	255.1	258.8
70°	357.9	342.6	312.2	277.9	255.1	224.6	213.1	217.0	217.0
72.5°	293.1	281.7	251.3	220.8	198.0	178.9	178.9	182.8	186.5
75°	232.2	224.6	194.2	167.5	152.3	140.8	148.5	152.3	156.0
77.5°	178.9	167.5	144.6	125.6	114.2	118.0	125.6	129.4	133.2
80°	125.6	121.8	102.8	91.4	87.5	91.4	98.9	102.8	102.8
82.5°	80.0	76.2	64.8	60.9	60.9	64.8	72.3	72.3	72.3
85°	41.9	38.0	34.3	34.3	38.0	41.9	45.7	45.7	45.7
87.5°	15.2	11.4	15.2	15.2	19.1	19.1	19.1	19.1	19.1
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)