

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: P583179

Luminaire Tested: **HC660D010-HM64560835-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583179
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: HC660D010-HM64560835-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5948.7 lumens
Efficiency: N/A
Efficacy: 108.2 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

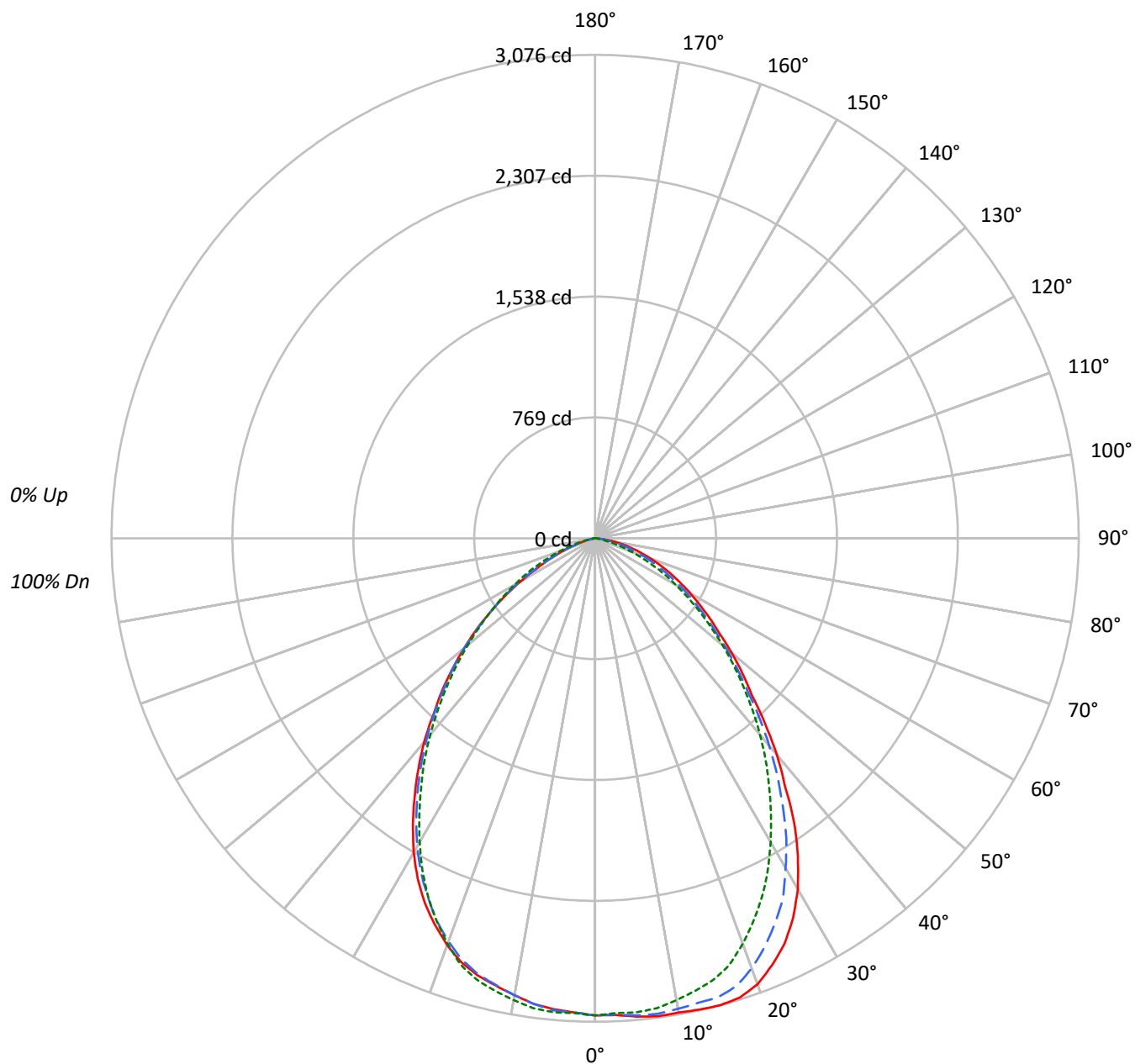
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	107	104	101	108	105	102	99		101	98	96			97	95	93			93
2	103	96	90	85	100	94	89	84		91	86	83			87	84	81			85
3	95	86	79	74	93	84	78	73		82	76	72			79	74	70			77
4	88	78	70	64	86	76	69	64		74	68	63			72	66	62			70
5	82	70	62	57	80	69	62	56		67	61	56			65	60	55			64
6	76	64	56	50	74	63	56	50		61	55	50			60	54	49			58
7	71	59	51	45	69	58	50	45		56	50	45			55	49	44			54
8	66	54	46	41	65	53	46	41		52	45	41			51	45	40			50
9	62	50	42	37	61	49	42	37		48	42	37			47	41	37			46
10	59	46	39	34	57	46	39	34		45	38	34			44	38	34			43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	166423	166423	166423
5°	168154	166624	165523
10°	170538	166112	164342
15°	174553	165069	163486
20°	176176	160156	160623
25°	172316	152095	154987
30°	163202	141294	146079
35°	147780	129141	133933
40°	128705	116740	121012
45°	109197	103336	107034
50°	96713	90257	92637
55°	85187	77197	76814
60°	76343	65006	59765
65°	68127	52133	42845
70°	59946	37635	26783
75°	50580	22769	15166
80°	38925	10039	6282
85°	22518	2516	2516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.2	4.8
10°-20°	828.2	13.9
20°-30°	1197.2	20.1
30°-40°	1259.7	21.2
40°-50°	1059.0	17.8
50°-60°	743.3	12.5
60°-70°	408.9	6.9
70°-80°	145.2	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°	2313.6	38.9
0°-40°	3573.3	60.1
0°-60°	5375.6	90.4
0°-90°	5948.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5948.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3036	3036	3036	3036	3036	
5°	3056	3048	3028	3016	3008	292
15°	3076	3024	2908	2873	2881	868
25°	2849	2706	2514	2518	2562	1303
35°	2208	2081	1930	1970	2001	1369
45°	1408	1369	1333	1365	1381	1105
55°	891	844	808	808	804	802
65°	525	470	402	330	330	523
75°	239	191	108	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°	3035.8	3035.8	3035.8	3035.8	3035.8	3035.8	3035.8	3035.8	3035.8
2.5°	3035.8	3035.8	3031.8	3031.8	3023.9	3023.9	3019.9	3019.9	3019.9
5°	3055.7	3055.7	3047.8	3035.8	3027.9	3015.9	3015.9	3011.9	3007.9
7.5°	3067.6	3063.6	3051.7	3035.8	3015.9	2996.1	2988.1	2992.1	2988.1
10°	3063.6	3055.7	3039.8	3007.9	2984.1	2956.3	2952.3	2948.3	2952.3
12.5°	3071.6	3059.7	3027.9	2988.1	2948.3	2916.4	2912.5	2912.5	2916.4
15°	3075.6	3063.6	3023.9	2964.2	2908.5	2876.6	2872.6	2876.6	2880.6
17.5°	3063.6	3047.8	2988.1	2908.5	2844.8	2813.0	2813.0	2821.0	2828.9
20°	3019.9	2996.1	2912.5	2817.0	2745.3	2721.5	2729.5	2745.3	2753.3
22.5°	2940.3	2912.5	2817.0	2709.5	2634.0	2614.0	2634.0	2653.8	2661.8
25°	2848.8	2817.0	2705.6	2594.2	2514.5	2490.7	2518.5	2550.4	2562.3
27.5°	2725.5	2689.7	2586.2	2458.9	2379.4	2367.4	2399.2	2435.0	2443.0
30°	2578.2	2538.5	2423.1	2303.7	2232.1	2228.1	2263.9	2295.7	2307.7
32.5°	2399.2	2363.4	2263.9	2144.6	2080.9	2080.9	2116.7	2144.6	2156.5
35°	2208.2	2168.4	2080.9	1981.5	1929.7	1933.7	1969.5	1989.4	2001.3
37.5°	1981.5	1969.5	1901.8	1818.3	1782.5	1790.5	1818.3	1834.2	1846.2
40°	1798.5	1766.5	1722.8	1655.2	1631.3	1639.2	1667.2	1683.0	1691.0
42.5°	1599.5	1579.5	1543.7	1496.0	1480.1	1492.0	1515.9	1527.9	1523.9
45°	1408.5	1404.5	1368.7	1340.9	1332.9	1348.8	1364.7	1376.7	1380.6
47.5°	1269.3	1253.3	1221.5	1201.6	1193.6	1209.6	1225.4	1233.4	1233.4
50°	1134.0	1118.1	1086.2	1066.3	1058.3	1074.3	1086.2	1094.1	1086.2
52.5°	998.7	982.8	955.0	931.0	927.0	935.0	939.0	943.0	951.0
55°	891.3	875.3	843.5	815.7	807.7	811.7	807.7	807.7	803.7
57.5°	787.8	771.9	740.0	708.2	696.3	692.3	680.4	676.4	672.4
60°	696.3	676.4	644.6	608.7	592.9	576.9	557.1	545.1	545.1
62.5°	608.7	588.9	553.1	521.2	497.4	469.6	437.6	421.8	421.8
65°	525.2	509.3	469.6	433.7	401.9	366.1	330.3	322.3	330.3
67.5°	445.6	429.7	389.9	354.1	314.3	270.6	238.8	238.8	246.6
70°	374.0	358.1	322.3	278.5	234.8	191.0	167.1	167.1	167.1
72.5°	306.4	290.4	250.6	210.8	167.1	123.3	111.5	115.3	111.5
75°	238.8	226.8	191.0	147.2	107.5	75.6	71.6	67.6	71.6
77.5°	179.0	167.1	135.3	95.5	59.7	43.8	39.8	39.8	39.8
80°	123.3	111.5	87.5	55.7	31.8	19.9	19.9	19.9	19.9
82.5°	75.6	63.7	47.8	27.8	12.0	12.0	12.0	12.0	12.0
85°	35.8	27.8	19.9	8.0	4.0	4.0	4.0	4.0	4.0
87.5°	8.0	8.0	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)