

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: P583178

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC660D010-HM64560835-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5928.7 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

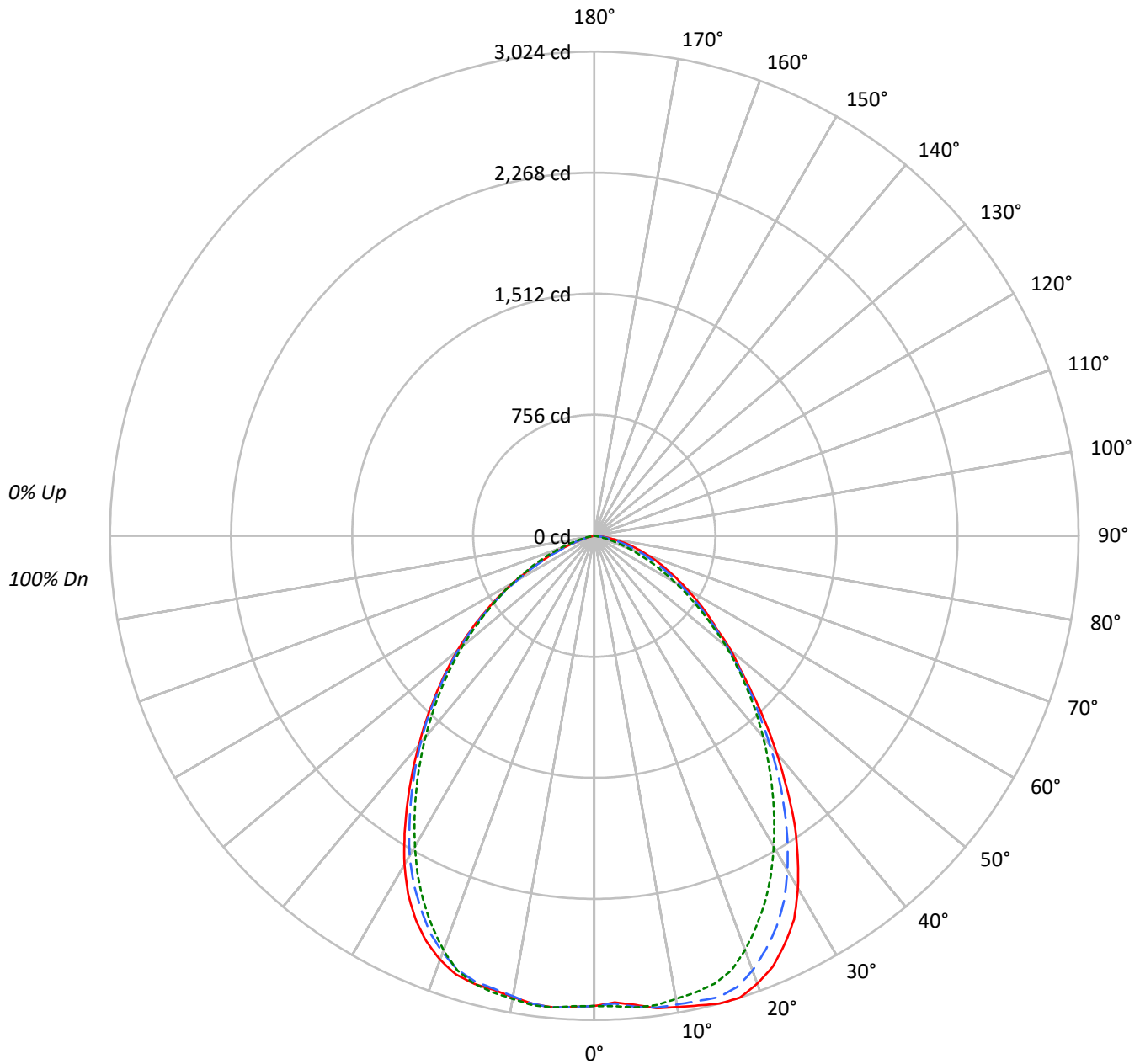
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88		
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77		
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68		
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60		
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	62	55	50	60	54	49	58	53	49	47		
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	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°	160985	160985	160985
5°	161820	162700	162700
10°	166352	163468	162806
15°	171635	164405	164405
20°	173638	160641	164357
25°	170169	152604	159820
30°	160955	141813	150124
35°	145665	129690	136081
40°	126716	117320	121878
45°	108283	104584	108283
50°	95025	91630	95366
55°	82912	77206	80246
60°	73295	64129	63262
65°	65039	50576	43364
70°	57398	35711	26142
75°	48885	20228	12645
80°	36431	6282	3788
85°	20002	2516	2516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.7	4.8
10°-20°	824.1	13.9
20°-30°	1203.7	20.3
30°-40°	1262.4	21.3
40°-50°	1063.5	17.9
50°-60°	745.1	12.6
60°-70°	399.5	6.7
70°-80°	134.0	2.3
80°-90°	14.6	0.2
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°	2309.6	39.0
0°-40°	3572.0	60.2
0°-60°	5380.6	90.8
0°-90°	5928.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5928.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2937	2937	2937	2937	2937	
5°	2941	2953	2957	2957	2957	283
15°	3024	2984	2897	2881	2897	853
25°	2813	2694	2523	2567	2642	1289
35°	2177	2065	1938	1994	2033	1351
45°	1397	1373	1349	1385	1397	1088
55°	868	840	808	824	840	781
65°	501	458	390	322	334	501
75°	231	179	96	60	60	245
85°	32	16	4	4	4	44
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°	2936.6	2936.6	2936.6	2936.6	2936.6	2936.6	2936.6	2936.6	2936.6
2.5°	2916.8	2916.8	2924.7	2932.6	2940.6	2940.6	2944.6	2948.6	2944.6
5°	2940.6	2940.6	2952.6	2956.6	2956.6	2952.6	2956.6	2956.6	2956.6
7.5°	2976.4	2968.5	2972.5	2964.5	2956.6	2952.6	2948.6	2948.6	2948.6
10°	2988.4	2980.4	2972.5	2956.6	2936.6	2924.7	2920.8	2924.7	2924.7
12.5°	3004.3	2996.3	2976.4	2944.6	2920.8	2900.8	2896.8	2904.8	2904.8
15°	3024.2	3016.3	2984.4	2932.6	2896.8	2877.0	2881.0	2888.9	2896.8
17.5°	3024.2	3008.3	2956.6	2888.9	2845.1	2825.2	2841.1	2861.0	2873.0
20°	2976.4	2960.5	2888.9	2805.3	2753.6	2741.7	2769.5	2805.3	2817.3
22.5°	2912.8	2881.0	2797.3	2697.9	2642.2	2642.2	2682.0	2725.7	2741.7
25°	2813.3	2789.5	2693.9	2578.5	2522.9	2518.9	2566.6	2626.2	2642.2
27.5°	2701.9	2670.0	2566.6	2447.2	2387.6	2391.4	2443.2	2502.9	2518.9
30°	2542.7	2502.9	2411.4	2296.0	2240.3	2256.1	2307.9	2351.7	2371.6
32.5°	2363.6	2327.8	2244.3	2136.8	2089.0	2105.0	2148.8	2188.6	2204.5
35°	2176.6	2136.8	2065.2	1969.7	1937.9	1953.8	1993.5	2025.4	2033.4
37.5°	1965.7	1937.9	1886.2	1810.6	1786.7	1806.6	1838.4	1858.2	1866.2
40°	1770.7	1746.9	1703.1	1647.4	1639.4	1655.3	1687.2	1699.1	1703.1
42.5°	1579.8	1559.8	1532.0	1492.2	1492.2	1508.1	1536.0	1543.9	1547.9
45°	1396.7	1384.8	1372.8	1341.0	1349.0	1368.8	1384.8	1396.7	1396.7
47.5°	1237.5	1241.5	1225.6	1201.7	1209.7	1229.5	1241.5	1253.4	1253.4
50°	1114.2	1102.2	1086.3	1062.4	1074.4	1090.3	1106.2	1114.2	1118.2
52.5°	970.9	966.9	955.0	927.1	935.1	943.1	959.0	970.9	974.9
55°	867.5	855.5	839.6	807.8	807.8	815.8	823.7	831.6	839.6
57.5°	768.0	756.0	732.2	696.3	692.3	692.3	688.4	696.3	708.3
60°	668.5	664.5	628.7	596.9	584.9	573.0	557.1	561.0	577.0
62.5°	581.0	573.0	541.2	501.4	477.5	457.6	437.7	433.7	449.7
65°	501.4	493.4	457.6	417.8	389.9	354.1	322.3	322.3	334.3
67.5°	429.7	413.9	382.1	338.2	302.4	258.6	226.8	234.8	238.8
70°	358.1	346.2	310.4	266.6	222.8	179.1	159.1	163.1	163.1
72.5°	294.4	278.6	242.8	199.0	155.1	115.4	107.5	103.5	103.5
75°	230.8	214.9	179.1	135.3	95.5	67.6	59.7	59.7	59.7
77.5°	167.1	155.1	123.3	83.5	51.7	31.8	27.8	23.8	23.8
80°	115.4	103.5	75.6	43.8	19.9	12.0	12.0	12.0	12.0
82.5°	67.6	55.7	35.8	19.9	8.0	4.0	4.0	4.0	4.0
85°	31.8	23.8	16.0	8.0	4.0	4.0	4.0	4.0	4.0
87.5°	4.0	4.0	4.0	0.0	0.0	0.0	0.0	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)