

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: P581294

Luminaire Tested: **HC460D010-HM44560830-41RWWC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581294
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC460D010-HM44560830-41RWWC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5259.7 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

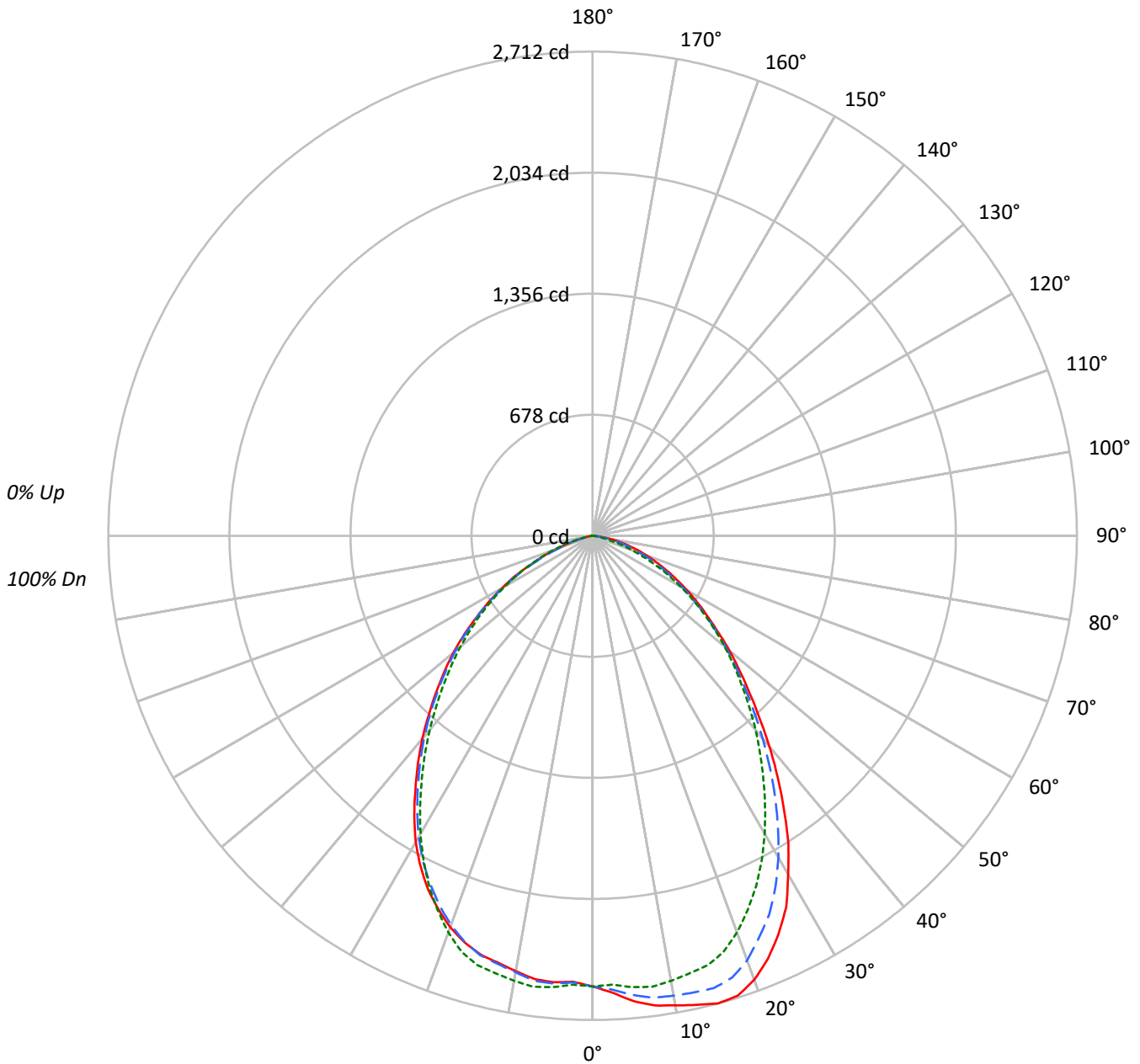
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	102	99	101	98	96	97	95	93	93	92	90	88				88				
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76				76				
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67				67				
4	87	77	69	63	85	76	68	63	73	67	62	71	66	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	49	44	56	49	44	54	48	44	53	47	43	41				41				
8	66	53	45	40	64	53	45	40	51	44	40	50	44	39	49	43	39	37				37				
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34				34				
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31				31				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	311324	311324	311324
5°	323929	314210	310830
10°	334501	316991	310153
15°	346263	317952	310112
20°	347437	310263	306233
25°	335152	294772	297086
30°	311887	274472	282248
35°	280932	251148	260393
40°	247691	228466	238916
45°	216581	205853	215971
50°	191777	185214	195039
55°	168704	163564	170166
60°	150630	139701	143895
65°	132417	113475	111520
70°	115621	83632	76275
75°	95886	50374	40651
80°	72666	19392	12075
85°	33824	4812	4812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.4	4.6
10°-20°	710.5	13.5
20°-30°	1028.9	19.6
30°-40°	1085.5	20.6
40°-50°	939.4	17.9
50°-60°	695.9	13.2
60°-70°	401.2	7.6
70°-80°	140.1	2.7
80°-90°	14.7	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°	1982.8	37.7
0°-40°	3068.3	58.3
0°-60°	4703.7	89.4
0°-90°	5259.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5259.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2524	2524	2524	2524	2524	
5°	2616	2582	2538	2517	2510	251
15°	2712	2623	2490	2432	2428	763
25°	2463	2340	2166	2152	2183	1127
35°	1866	1780	1668	1705	1729	1165
45°	1242	1207	1180	1224	1238	964
55°	784	768	761	788	791	707
65°	454	426	389	368	382	453
75°	201	171	106	85	85	217
85°	24	14	3	3	3	37
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°	2524.0	2524.0	2524.0	2524.0	2524.0	2524.0	2524.0	2524.0	2524.0
2.5°	2561.6	2554.7	2544.5	2530.9	2517.2	2507.0	2503.6	2500.1	2500.1
5°	2616.2	2602.5	2582.0	2554.7	2537.7	2527.4	2517.2	2510.4	2510.4
7.5°	2653.6	2640.0	2609.3	2571.7	2547.9	2527.4	2513.7	2503.6	2503.6
10°	2670.7	2653.6	2616.2	2568.3	2530.9	2503.6	2483.1	2476.3	2476.3
12.5°	2691.2	2670.7	2619.6	2558.2	2510.4	2476.3	2455.8	2449.0	2449.0
15°	2711.6	2687.8	2622.9	2551.3	2489.9	2449.0	2432.0	2428.5	2428.5
17.5°	2701.4	2670.7	2595.6	2510.4	2442.1	2401.3	2384.1	2384.1	2387.6
20°	2646.9	2616.2	2530.9	2435.4	2363.7	2333.0	2319.4	2326.2	2333.0
22.5°	2565.0	2527.4	2435.4	2343.3	2268.2	2240.9	2240.9	2251.1	2261.4
25°	2462.6	2428.5	2339.8	2237.5	2165.9	2145.5	2152.2	2169.3	2182.9
27.5°	2346.7	2309.1	2217.1	2121.5	2049.9	2039.6	2056.8	2080.6	2087.5
30°	2189.8	2159.1	2080.6	1988.6	1927.1	1923.7	1947.6	1964.6	1981.7
32.5°	2039.6	2005.6	1930.6	1841.9	1797.5	1801.0	1828.3	1848.7	1858.9
35°	1865.7	1835.0	1780.4	1708.8	1667.9	1674.7	1705.4	1725.8	1729.3
37.5°	1702.0	1681.5	1627.0	1572.4	1541.8	1555.4	1582.6	1606.5	1606.5
40°	1538.3	1521.2	1480.3	1435.9	1418.9	1435.9	1463.2	1483.8	1483.8
42.5°	1381.3	1371.2	1337.0	1306.3	1296.1	1320.0	1343.9	1360.9	1357.5
45°	1241.6	1231.3	1207.4	1183.6	1180.1	1204.0	1224.4	1234.7	1238.1
47.5°	1115.4	1108.5	1088.1	1071.0	1071.0	1094.8	1112.0	1122.1	1125.6
50°	999.4	992.5	975.5	961.8	965.2	989.1	1002.8	1013.1	1016.4
52.5°	883.4	880.0	866.3	849.3	859.5	876.6	893.6	900.5	903.9
55°	784.5	784.5	767.5	753.8	760.6	777.6	787.9	791.3	791.3
57.5°	695.9	692.4	671.9	658.3	661.7	678.7	685.6	689.0	689.0
60°	610.6	607.1	586.7	566.3	566.3	576.4	579.8	583.3	583.3
62.5°	528.7	525.3	501.4	484.4	477.5	474.1	474.1	481.0	494.6
65°	453.7	450.2	426.4	399.1	388.8	378.6	368.4	375.2	382.1
67.5°	385.4	378.6	354.8	330.8	306.9	289.9	272.9	283.1	296.8
70°	320.6	313.8	286.5	259.2	231.9	204.6	191.0	204.6	211.5
72.5°	259.2	252.4	225.1	197.9	163.7	136.5	133.0	136.5	139.9
75°	201.2	197.9	170.6	139.9	105.7	85.3	85.3	85.3	85.3
77.5°	150.0	143.3	116.0	88.7	61.4	47.7	44.3	44.3	44.3
80°	102.3	95.5	71.6	51.2	27.3	20.4	20.4	17.0	17.0
82.5°	58.0	54.6	37.6	20.4	10.3	6.8	6.8	6.8	6.8
85°	23.9	20.4	13.6	6.8	3.4	3.4	3.4	3.4	3.4
87.5°	3.4	3.4	3.4	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)