

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: P582476

Luminaire Tested: **HC640D010-HM63040840-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582476
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: HC640D010-HM63040840-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4922.9 lumens
Efficiency: N/A
Efficacy: 120.1 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

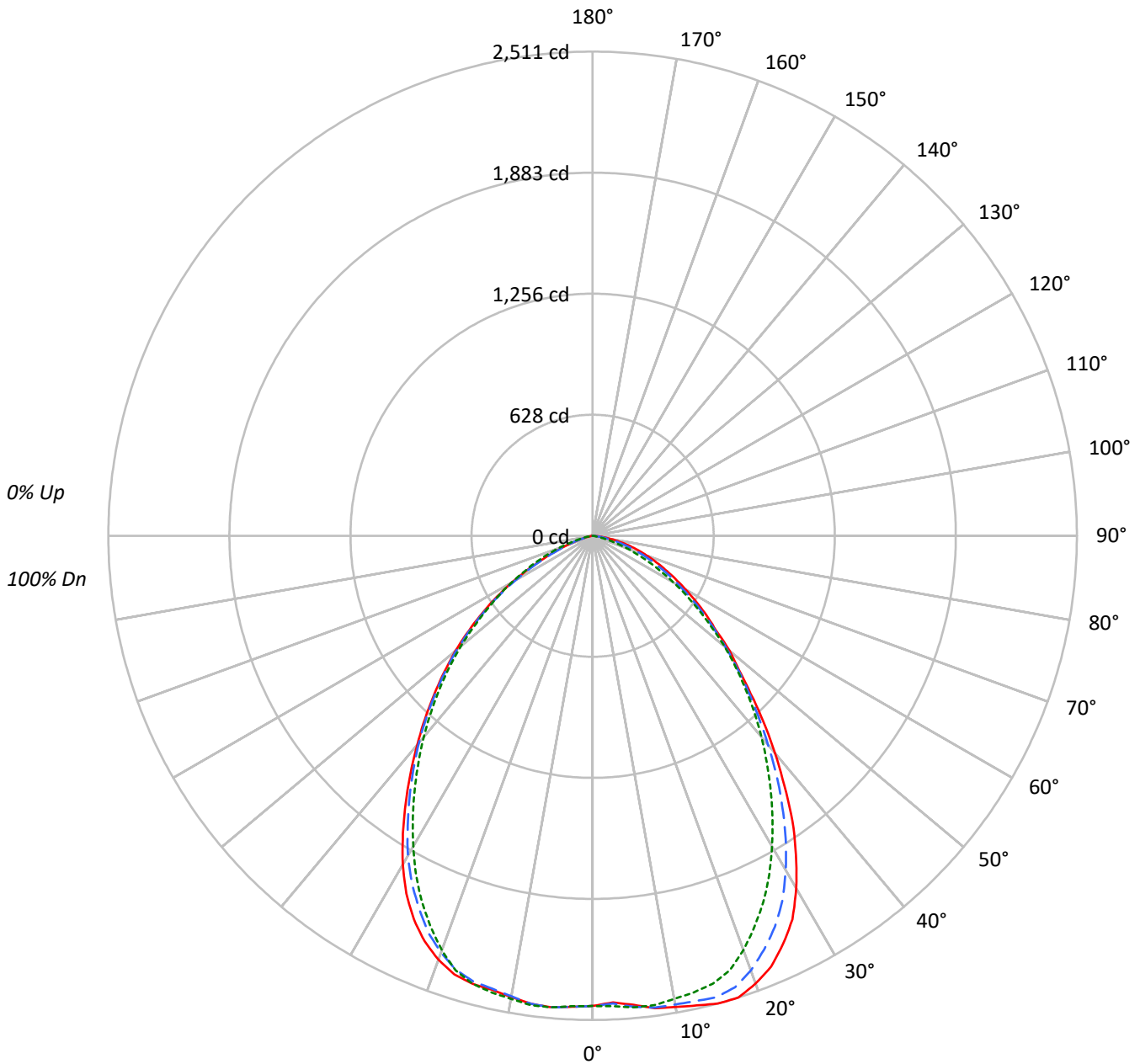
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	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°	133674	133674	133674
5°	134366	135092	135092
10°	138129	135736	135185
15°	142515	136510	136510
20°	144178	133391	136465
25°	141292	126709	132703
30°	133647	117752	124658
35°	120950	107679	113000
40°	105219	97418	101197
45°	89916	86838	89916
50°	78897	76091	79179
55°	68843	64103	66636
60°	60850	53252	52529
65°	54001	42002	35996
70°	47668	29668	21718
75°	40604	16796	10506
80°	30244	5209	3125
85°	16605	2076	2076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.9	4.8
10°-20°	684.3	13.9
20°-30°	999.5	20.3
30°-40°	1048.2	21.3
40°-50°	883.1	17.9
50°-60°	618.7	12.6
60°-70°	331.7	6.7
70°-80°	111.3	2.3
80°-90°	12.1	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°	1917.7	39.0
0°-40°	2966.0	60.2
0°-60°	4467.8	90.8
0°-90°	4922.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4922.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2438	2438	2438	2438	2438	
5°	2442	2452	2455	2455	2455	235
15°	2511	2478	2405	2392	2405	708
25°	2336	2237	2095	2131	2194	1070
35°	1807	1715	1609	1655	1688	1122
45°	1160	1140	1120	1150	1160	903
55°	720	697	671	684	697	648
65°	416	380	324	268	278	416
75°	192	149	79	50	50	203
85°	26	13	3	3	3	36
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°	2438.4	2438.4	2438.4	2438.4	2438.4	2438.4	2438.4	2438.4	2438.4
2.5°	2421.9	2421.9	2428.5	2435.1	2441.7	2441.7	2445.0	2448.3	2445.0
5°	2441.7	2441.7	2451.6	2454.9	2454.9	2451.6	2454.9	2454.9	2454.9
7.5°	2471.4	2464.8	2468.1	2461.5	2454.9	2451.6	2448.3	2448.3	2448.3
10°	2481.4	2474.8	2468.1	2454.9	2438.4	2428.5	2425.2	2428.5	2428.5
12.5°	2494.6	2488.0	2471.4	2445.0	2425.2	2408.8	2405.3	2412.1	2412.1
15°	2511.1	2504.5	2478.1	2435.1	2405.3	2388.8	2392.1	2398.7	2405.3
17.5°	2511.1	2497.9	2454.9	2398.7	2362.5	2346.0	2359.2	2375.7	2385.5
20°	2471.4	2458.2	2398.7	2329.4	2286.5	2276.6	2299.7	2329.4	2339.2
22.5°	2418.7	2392.1	2322.8	2240.2	2193.9	2193.9	2227.0	2263.3	2276.6
25°	2335.9	2316.2	2236.9	2141.0	2094.8	2091.5	2131.1	2180.7	2193.9
27.5°	2243.5	2217.1	2131.1	2032.1	1982.5	1985.8	2028.8	2078.2	2091.5
30°	2111.3	2078.2	2002.2	1906.5	1860.2	1873.4	1916.4	1952.8	1969.3
32.5°	1962.7	1932.9	1863.5	1774.3	1734.6	1747.8	1784.2	1817.3	1830.5
35°	1807.3	1774.3	1714.8	1635.6	1609.0	1622.4	1655.3	1681.7	1688.5
37.5°	1632.3	1609.0	1566.2	1503.4	1483.5	1500.1	1526.5	1543.0	1549.6
40°	1470.3	1450.5	1414.1	1367.9	1361.3	1374.5	1400.9	1410.8	1414.1
42.5°	1311.7	1295.3	1272.0	1239.1	1239.1	1252.3	1275.3	1281.9	1285.2
45°	1159.8	1149.8	1139.9	1113.5	1120.1	1136.6	1149.8	1159.8	1159.8
47.5°	1027.6	1030.9	1017.6	997.8	1004.4	1020.9	1030.9	1040.8	1040.8
50°	925.1	915.3	902.1	882.1	892.2	905.4	918.6	925.1	928.4
52.5°	806.2	802.9	793.0	769.9	776.5	783.1	796.3	806.2	809.5
55°	720.3	710.4	697.2	670.7	670.7	677.3	683.9	690.5	697.2
57.5°	637.7	627.8	607.9	578.2	575.0	575.0	571.7	578.2	588.1
60°	555.0	551.7	522.1	495.7	485.7	475.8	462.6	465.9	479.1
62.5°	482.4	475.8	449.4	416.3	396.5	380.0	363.5	360.1	373.4
65°	416.3	409.7	380.0	346.9	323.8	294.0	267.6	267.6	277.5
67.5°	356.8	343.6	317.2	280.8	251.1	214.7	188.4	194.9	198.2
70°	297.4	287.4	257.7	221.3	185.1	148.7	132.2	135.5	135.5
72.5°	244.5	231.4	201.5	165.3	128.9	95.8	89.2	85.9	85.9
75°	191.7	178.5	148.7	112.4	79.3	56.2	49.6	49.6	49.6
77.5°	138.8	128.9	102.5	69.4	43.0	26.4	23.1	19.8	19.8
80°	95.8	85.9	62.8	36.4	16.5	9.9	9.9	9.9	9.9
82.5°	56.2	46.3	29.7	16.5	6.6	3.3	3.3	3.3	3.3
85°	26.4	19.8	13.2	6.6	3.3	3.3	3.3	3.3	3.3
87.5°	3.3	3.3	3.3	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)