

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: P582467

Luminaire Tested: **HC640D010-HM63040835-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582467
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: HC640D010-HM63040835-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4506.0 lumens
Efficiency: N/A
Efficacy: 109.9 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

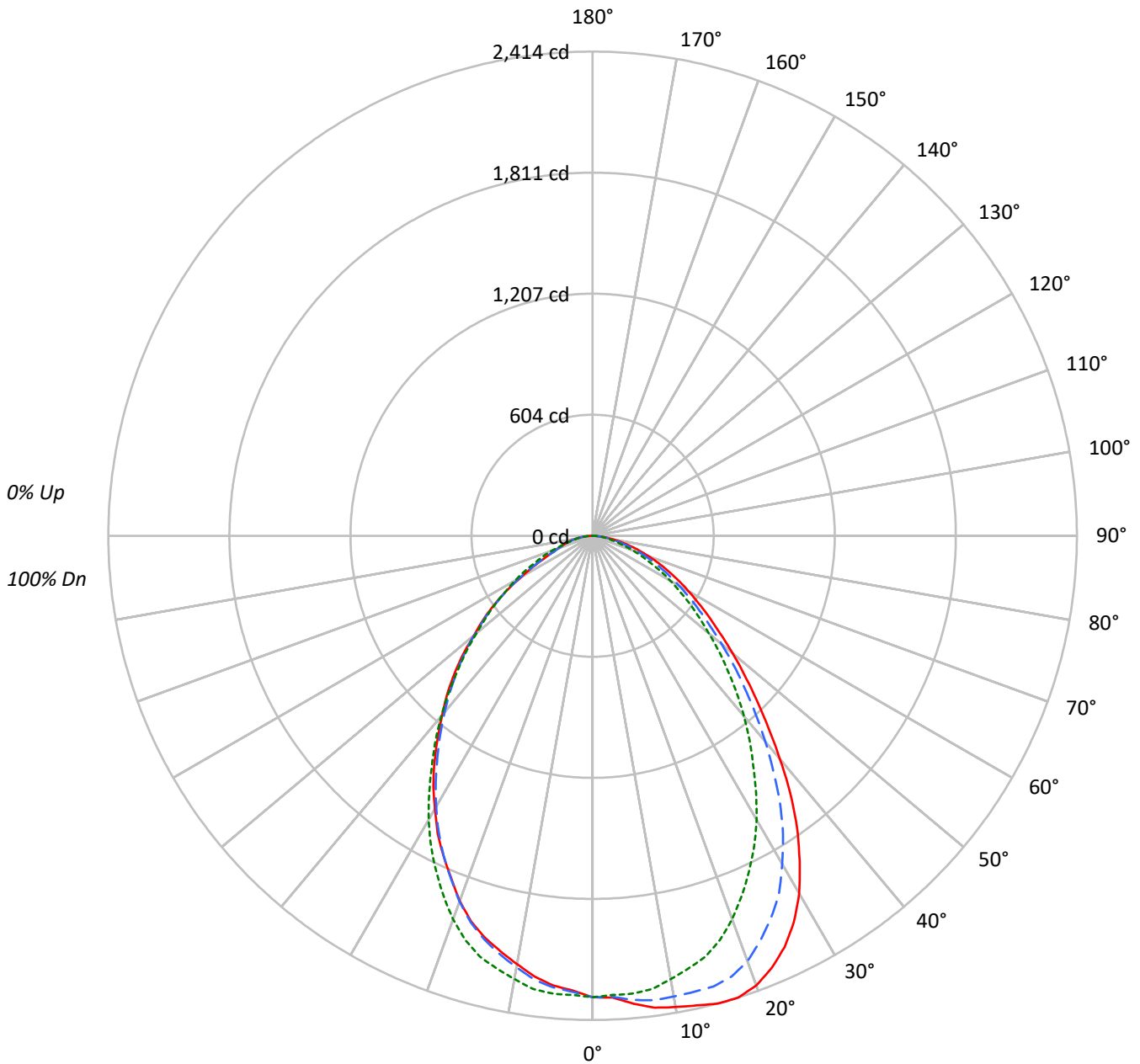
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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								
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76								
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66								
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58								
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52								
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46								
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42								
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38								
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34								
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	126136	126136	126136
5°	128868	126100	123850
10°	132808	124931	120728
15°	137004	123270	117748
20°	139184	118649	112961
25°	136889	111605	106470
30°	130324	103465	99490
35°	118855	93398	91926
40°	103923	83907	83449
45°	89436	73837	75550
50°	77746	64331	65687
55°	67897	56476	57078
60°	60302	48932	44799
65°	53832	41185	34258
70°	47364	33756	28707
75°	40625	26624	27302
80°	32738	22825	26771
85°	21763	19750	23713



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.9	4.8
10°-20°	620.2	13.8
20°-30°	885.3	19.6
30°-40°	927.4	20.6
40°-50°	780.8	17.3
50°-60°	555.7	12.3
60°-70°	325.3	7.2
70°-80°	153.9	3.4
80°-90°	39.6	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°	1723.4	38.2
0°-40°	2650.7	58.8
0°-60°	3987.2	88.5
0°-90°	4506.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4506.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2301	2301	2301	2301	2301	
5°	2342	2323	2292	2260	2251	225
15°	2414	2326	2172	2084	2075	681
25°	2263	2103	1845	1757	1760	1036
35°	1776	1628	1396	1348	1374	1103
45°	1154	1069	952	956	974	896
55°	710	651	591	591	597	640
65°	415	368	318	267	264	414
75°	192	160	126	122	129	206
85°	35	28	31	38	38	45
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°	2300.9	2300.9	2300.9	2300.9	2300.9	2300.9	2300.9	2300.9	2300.9
2.5°	2304.0	2304.0	2300.9	2297.8	2291.5	2282.0	2275.8	2269.5	2269.5
5°	2341.8	2335.6	2322.9	2307.2	2291.5	2272.6	2260.1	2250.6	2250.6
7.5°	2373.3	2360.6	2335.6	2307.2	2279.0	2253.8	2231.7	2219.2	2216.1
10°	2385.8	2370.1	2332.4	2288.3	2244.3	2209.7	2184.7	2168.8	2168.8
12.5°	2398.3	2379.5	2329.2	2266.3	2209.7	2162.6	2137.4	2124.9	2121.7
15°	2414.0	2389.0	2326.1	2247.4	2172.0	2118.6	2084.0	2074.7	2074.7
17.5°	2414.0	2382.6	2304.0	2206.6	2112.4	2052.6	2021.1	2011.7	2014.9
20°	2385.8	2351.2	2256.9	2137.4	2033.8	1970.8	1939.5	1933.1	1936.3
22.5°	2332.4	2291.5	2184.7	2055.8	1942.6	1876.5	1848.3	1848.3	1845.1
25°	2263.1	2219.2	2102.9	1967.7	1845.1	1779.1	1757.2	1760.2	1760.2
27.5°	2172.0	2128.1	2011.7	1867.2	1744.5	1678.6	1662.9	1669.1	1672.2
30°	2058.8	2011.7	1889.2	1747.7	1634.5	1568.6	1559.1	1568.6	1571.7
32.5°	1920.6	1886.0	1766.5	1622.0	1515.1	1458.6	1455.4	1464.7	1477.4
35°	1776.0	1738.3	1628.3	1496.3	1395.6	1348.5	1348.5	1364.2	1373.6
37.5°	1618.8	1581.1	1480.4	1370.4	1285.6	1241.6	1247.9	1263.6	1266.8
40°	1452.2	1424.0	1339.0	1244.7	1172.5	1137.9	1147.3	1163.1	1166.1
42.5°	1295.0	1269.9	1200.7	1115.9	1062.5	1037.3	1049.9	1068.8	1075.0
45°	1153.6	1125.4	1068.8	996.4	952.4	939.9	955.6	968.1	974.5
47.5°	1024.7	999.5	952.4	886.4	855.0	848.6	864.5	870.7	877.0
50°	911.6	886.4	839.3	779.5	754.3	754.3	767.0	773.2	770.2
52.5°	801.6	779.5	735.5	685.2	669.5	669.5	679.0	682.1	688.4
55°	710.4	688.4	650.7	603.6	590.9	584.7	590.9	590.9	597.2
57.5°	625.5	606.6	572.1	528.1	512.3	506.1	502.9	499.8	506.1
60°	550.0	534.3	496.6	458.9	446.3	430.7	418.1	405.5	408.6
62.5°	480.9	465.2	430.7	392.9	380.4	358.4	342.7	326.8	333.2
65°	415.0	399.3	367.7	336.3	317.5	292.3	267.2	257.7	264.1
67.5°	355.2	342.7	311.2	279.8	264.1	235.7	210.6	210.6	213.8
70°	295.5	282.9	257.7	229.5	210.6	185.5	176.1	179.1	179.1
72.5°	242.0	232.7	207.5	182.3	163.4	147.7	147.7	150.9	154.1
75°	191.8	185.5	160.3	138.4	125.7	116.3	122.5	125.7	128.9
77.5°	147.7	138.4	119.5	103.7	94.3	97.5	103.7	106.8	110.0
80°	103.7	100.6	84.8	75.4	72.3	75.4	81.8	84.8	84.8
82.5°	66.0	62.9	53.4	50.3	50.3	53.4	59.8	59.8	59.8
85°	34.6	31.4	28.2	28.2	31.4	34.6	37.7	37.7	37.7
87.5°	12.5	9.4	12.5	12.5	15.7	15.7	15.7	15.7	15.7
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)