

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: P582483

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582483
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC640D010-HM63040840-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4186.1 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

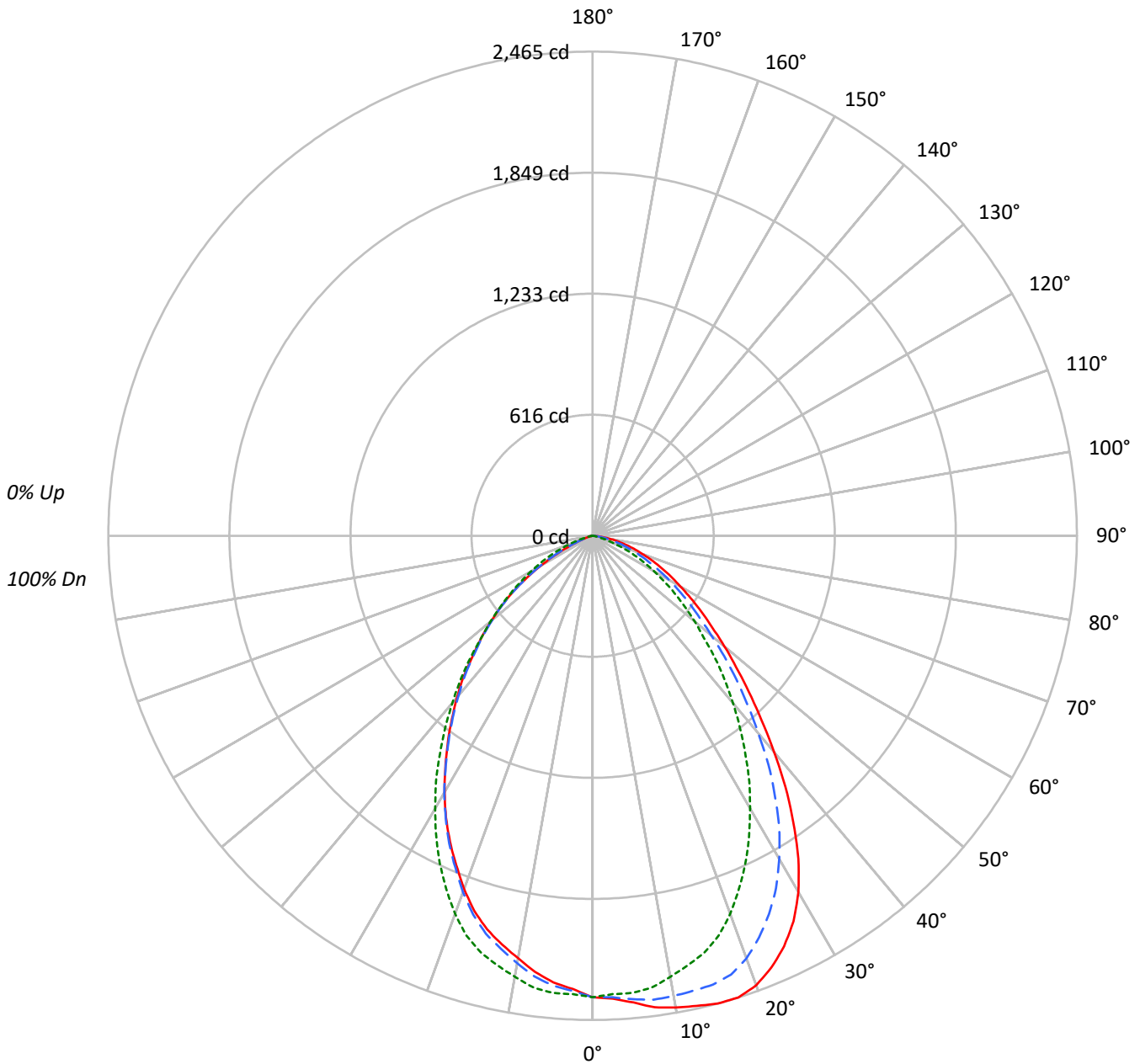
Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P582483

CATALOG NUMBER: HC640D010-HM63040840-61WWBB

Luminous Intensity Polar Plot





TEST NUMBER: P582483

CATALOG NUMBER: HC640D010-HM63040840-61WWBB

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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89			89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			78
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69			69
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61			61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54			54
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49			49
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44			44
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40			40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37			37
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34			34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	128773	128773	128773
5°	131268	128538	125627
10°	135730	126896	121569
15°	139882	124694	117753
20°	142054	119500	111596
25°	139490	111315	103917
30°	132596	101427	95369
35°	119177	90654	86010
40°	102850	79442	76844
45°	87087	68387	66604
50°	74676	57764	57201
55°	64734	48620	46737
60°	56520	39481	33320
65°	49720	30418	18433
70°	42892	20132	9008
75°	36410	9807	3495
80°	28160	4167	2084
85°	16605	2076	2076



TEST NUMBER: P582483

CATALOG NUMBER: HC640D010-HM63040840-61WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.7	5.3
10°-20°	626.9	15.0
20°-30°	882.8	21.1
30°-40°	901.9	21.5
40°-50°	727.2	17.4
50°-60°	487.8	11.7
60°-70°	246.8	5.9
70°-80°	78.9	1.9
80°-90°	12.1	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°	1731.3	41.4
0°-40°	2633.3	62.9
0°-60°	3848.2	91.9
0°-90°	4186.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4186.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2349	2349	2349	2349	2349	
5°	2385	2369	2336	2300	2283	230
15°	2465	2366	2197	2098	2075	696
25°	2306	2124	1840	1728	1718	1056
35°	1781	1619	1355	1279	1285	1108
45°	1123	1034	882	852	859	874
55°	677	601	509	486	489	609
65°	383	317	234	155	142	383
75°	172	122	46	16	16	185
85°	26	13	3	3	3	35
90°	0	0	0	0	0	



TEST NUMBER: P582483

CATALOG NUMBER: HC640D010-HM63040840-61WWBB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2349.0	2349.0	2349.0	2349.0	2349.0	2349.0	2349.0	2349.0	2349.0
2.5°	2359.0	2355.7	2352.3	2345.7	2335.8	2325.9	2319.3	2312.7	2309.4
5°	2385.4	2378.8	2368.9	2355.7	2335.8	2312.7	2299.5	2286.2	2282.9
7.5°	2421.7	2408.5	2382.1	2352.3	2319.3	2286.2	2263.1	2250.0	2240.1
10°	2438.3	2415.1	2378.8	2329.2	2279.6	2240.1	2210.2	2190.5	2183.9
12.5°	2451.5	2425.1	2372.2	2306.1	2240.1	2187.2	2154.2	2137.6	2131.0
15°	2464.7	2438.3	2365.6	2279.6	2197.1	2134.3	2098.0	2081.4	2074.8
17.5°	2464.7	2428.4	2342.4	2233.5	2134.3	2058.3	2022.0	2005.4	2002.1
20°	2435.0	2395.3	2289.7	2160.8	2048.4	1962.5	1929.4	1919.5	1912.9
22.5°	2378.8	2332.5	2213.5	2068.2	1946.1	1863.4	1827.1	1820.5	1813.9
25°	2306.1	2259.8	2124.4	1969.1	1840.3	1757.7	1727.9	1721.3	1718.0
27.5°	2213.5	2164.1	2022.0	1863.4	1724.6	1645.3	1618.9	1618.9	1615.6
30°	2094.7	2038.5	1899.8	1741.2	1602.3	1529.6	1509.9	1509.9	1506.6
32.5°	1949.4	1893.2	1767.6	1615.6	1483.5	1407.5	1390.9	1397.5	1394.2
35°	1780.8	1734.5	1618.9	1470.3	1354.6	1285.2	1278.6	1285.2	1285.2
37.5°	1612.3	1569.3	1470.3	1341.4	1232.3	1169.6	1169.6	1179.4	1176.2
40°	1437.2	1404.2	1311.6	1199.4	1110.1	1067.2	1060.6	1070.5	1073.8
42.5°	1272.0	1245.5	1166.3	1073.8	994.5	951.5	961.4	968.0	971.3
45°	1123.3	1096.9	1034.1	938.3	882.1	852.3	852.3	862.4	859.1
47.5°	991.2	971.3	908.5	816.1	766.5	753.3	759.9	766.5	766.5
50°	875.6	845.7	786.4	713.6	677.3	660.8	667.4	670.7	670.7
52.5°	766.5	746.7	687.2	621.1	588.1	578.1	578.1	581.5	581.5
55°	677.3	654.2	601.3	535.3	508.7	495.5	485.7	482.4	489.0
57.5°	591.4	571.5	522.1	459.3	429.5	416.3	396.5	389.9	396.5
60°	515.5	498.8	449.4	389.9	360.1	333.7	310.6	297.3	303.9
62.5°	449.4	429.5	380.0	330.4	297.3	267.6	231.2	211.4	221.3
65°	383.3	366.7	317.2	267.6	234.5	198.2	155.2	142.1	142.1
67.5°	323.8	307.3	261.0	218.0	178.5	135.5	95.8	92.5	95.8
70°	267.6	251.1	211.4	168.4	125.6	82.6	56.2	56.2	56.2
72.5°	221.3	201.5	165.1	122.3	79.3	43.0	29.7	33.0	33.0
75°	171.9	155.2	122.3	82.6	46.3	19.8	16.5	16.5	16.5
77.5°	128.9	115.7	85.9	52.9	23.1	6.6	6.6	6.6	6.6
80°	89.2	76.0	56.2	33.0	13.2	6.6	6.6	6.6	6.6
82.5°	52.9	46.3	33.0	16.5	6.6	3.3	3.3	3.3	3.3
85°	26.4	23.1	13.2	6.6	3.3	3.3	3.3	3.3	3.3
87.5°	6.6	6.6	3.3	3.3	0.0	3.3	3.3	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)