

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: P582495

Luminaire Tested: **HC640D010-HM63040927-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582495
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC640D010-HM63040927-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3565.3 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

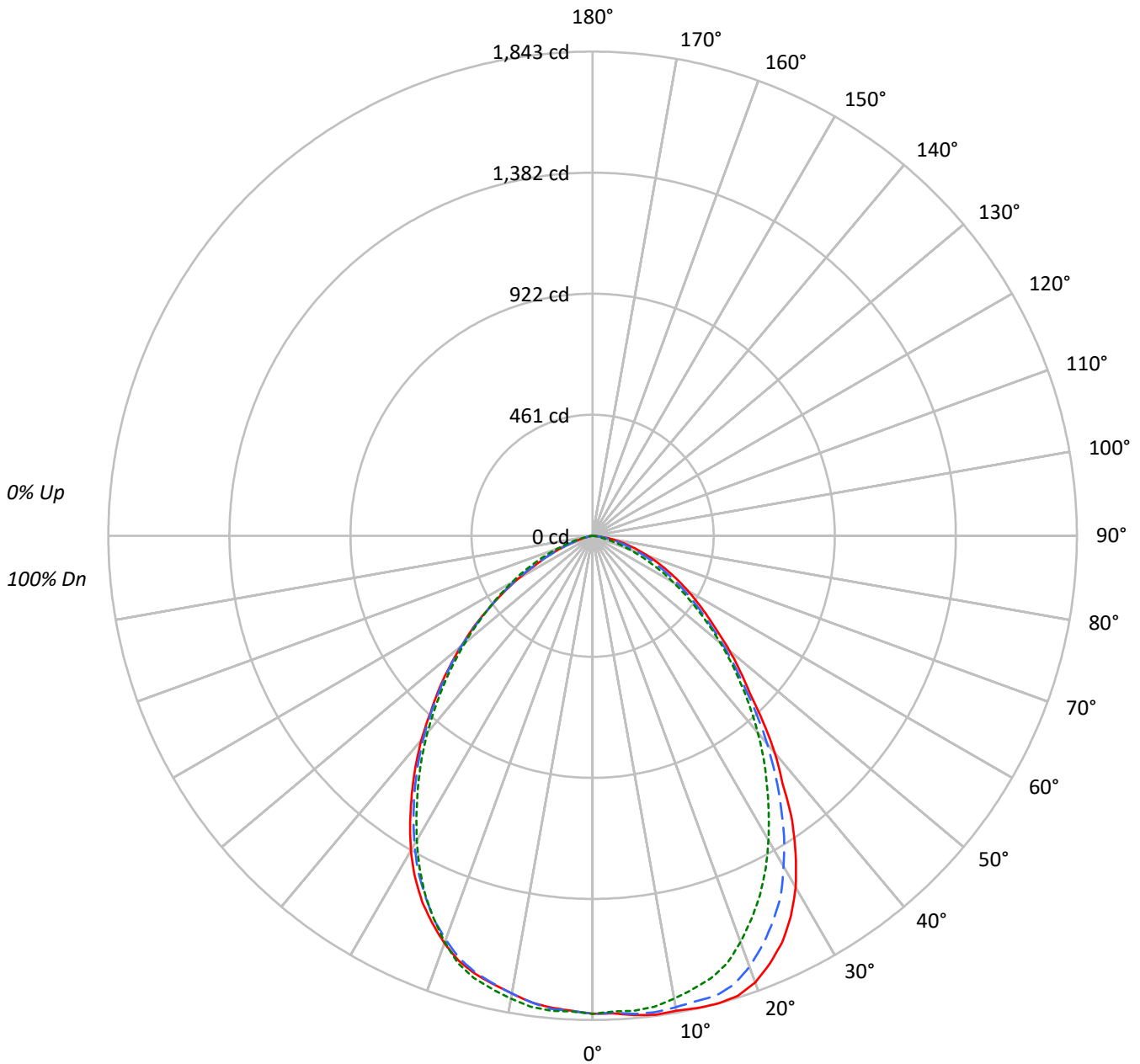
Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77				77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67				67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47				47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42				42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38				38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35				35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	99751	99751	99751
5°	100781	99868	99207
10°	102214	99564	98495
15°	104620	98934	97991
20°	105587	95996	96270
25°	103276	91161	92890
30°	97819	84690	87551
35°	88573	77403	80274
40°	77137	69974	72529
45°	65449	61937	64154
50°	57968	54096	55529
55°	51057	46268	46039
60°	45753	38955	35819
65°	40834	31236	25684
70°	35920	22552	16044
75°	30310	13640	9087
80°	23330	6030	3757
85°	13523	1510	1510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.7	4.8
10°-20°	496.4	13.9
20°-30°	717.6	20.1
30°-40°	755.0	21.2
40°-50°	634.7	17.8
50°-60°	445.5	12.5
60°-70°	245.0	6.9
70°-80°	87.0	2.4
80°-90°	11.4	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°	1386.7	38.9
0°-40°	2141.7	60.1
0°-60°	3221.9	90.4
0°-90°	3565.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3565.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1820	1820	1820	1820	1820	
5°	1831	1827	1815	1808	1803	175
15°	1843	1812	1743	1722	1727	520
25°	1707	1622	1507	1510	1536	781
35°	1324	1247	1157	1180	1200	820
45°	844	820	799	818	828	662
55°	534	506	484	484	482	481
65°	315	281	241	198	198	313
75°	143	114	64	43	43	154
85°	22	12	2	2	2	30
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°	1819.6	1819.6	1819.6	1819.6	1819.6	1819.6	1819.6	1819.6	1819.6
2.5°	1819.6	1819.6	1817.2	1817.2	1812.4	1812.4	1809.9	1809.9	1809.9
5°	1831.4	1831.4	1826.7	1819.6	1814.8	1807.6	1807.6	1805.2	1802.8
7.5°	1838.6	1836.2	1829.1	1819.6	1807.6	1795.7	1790.9	1793.3	1790.9
10°	1836.2	1831.4	1821.9	1802.8	1788.6	1771.8	1769.4	1767.1	1769.4
12.5°	1841.1	1833.8	1814.8	1790.9	1767.1	1747.9	1745.6	1745.6	1747.9
15°	1843.4	1836.2	1812.4	1776.6	1743.2	1724.2	1721.8	1724.2	1726.6
17.5°	1836.2	1826.7	1790.9	1743.2	1705.1	1685.9	1685.9	1690.8	1695.6
20°	1809.9	1795.7	1745.6	1688.3	1645.5	1631.2	1636.0	1645.5	1650.2
22.5°	1762.3	1745.6	1688.3	1624.0	1578.7	1566.7	1578.7	1590.6	1595.3
25°	1707.4	1688.3	1621.6	1554.8	1507.1	1492.8	1509.5	1528.6	1535.7
27.5°	1633.6	1612.1	1550.1	1473.7	1426.1	1418.8	1438.0	1459.5	1464.2
30°	1545.3	1521.5	1452.4	1380.7	1337.9	1335.5	1356.9	1376.0	1383.1
32.5°	1438.0	1416.5	1356.9	1285.4	1247.2	1247.2	1268.6	1285.4	1292.5
35°	1323.5	1299.6	1247.2	1187.6	1156.6	1159.0	1180.4	1192.4	1199.5
37.5°	1187.6	1180.4	1139.9	1089.8	1068.4	1073.1	1089.8	1099.4	1106.5
40°	1077.9	1058.8	1032.6	992.0	977.8	982.5	999.1	1008.8	1013.5
42.5°	958.6	946.8	925.3	896.7	887.2	894.3	908.5	915.8	913.4
45°	844.2	841.8	820.3	803.7	798.9	808.4	817.9	825.2	827.5
47.5°	760.7	751.2	732.0	720.2	715.4	724.9	734.6	739.3	739.3
50°	679.7	670.1	651.1	639.1	634.3	643.9	651.1	655.8	651.1
52.5°	598.6	589.1	572.3	558.1	555.7	560.4	562.8	565.2	569.9
55°	534.2	524.7	505.6	488.8	484.1	486.4	484.1	484.1	481.7
57.5°	472.2	462.6	443.6	424.5	417.3	415.0	407.8	405.5	403.0
60°	417.3	405.5	386.3	364.8	355.3	345.8	333.8	326.7	326.7
62.5°	364.8	353.0	331.5	312.3	298.1	281.3	262.3	252.7	252.7
65°	314.8	305.2	281.3	260.0	240.8	219.3	198.0	193.1	198.0
67.5°	267.1	257.6	233.7	212.2	188.4	162.1	143.1	143.1	147.9
70°	224.1	214.6	193.1	167.0	140.7	114.5	100.1	100.1	100.1
72.5°	183.6	174.1	150.2	126.4	100.1	73.9	66.7	69.1	66.7
75°	143.1	136.0	114.5	88.2	64.4	45.4	42.9	40.5	42.9
77.5°	107.4	100.1	81.1	57.2	35.7	26.2	23.9	23.9	23.9
80°	73.9	66.7	52.5	33.4	19.1	11.9	11.9	11.9	11.9
82.5°	45.4	38.1	28.6	16.8	7.1	7.1	7.1	7.1	7.1
85°	21.5	16.8	11.9	4.7	2.4	2.4	2.4	2.4	2.4
87.5°	4.7	4.7	2.4	2.4	0.0	2.4	2.4	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)