

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: P582377

Luminaire Tested: **HC635D010-HM63040930-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582377
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: HC635D010-HM63040930-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3515.3 lumens
Efficiency: N/A
Efficacy: 104.3 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

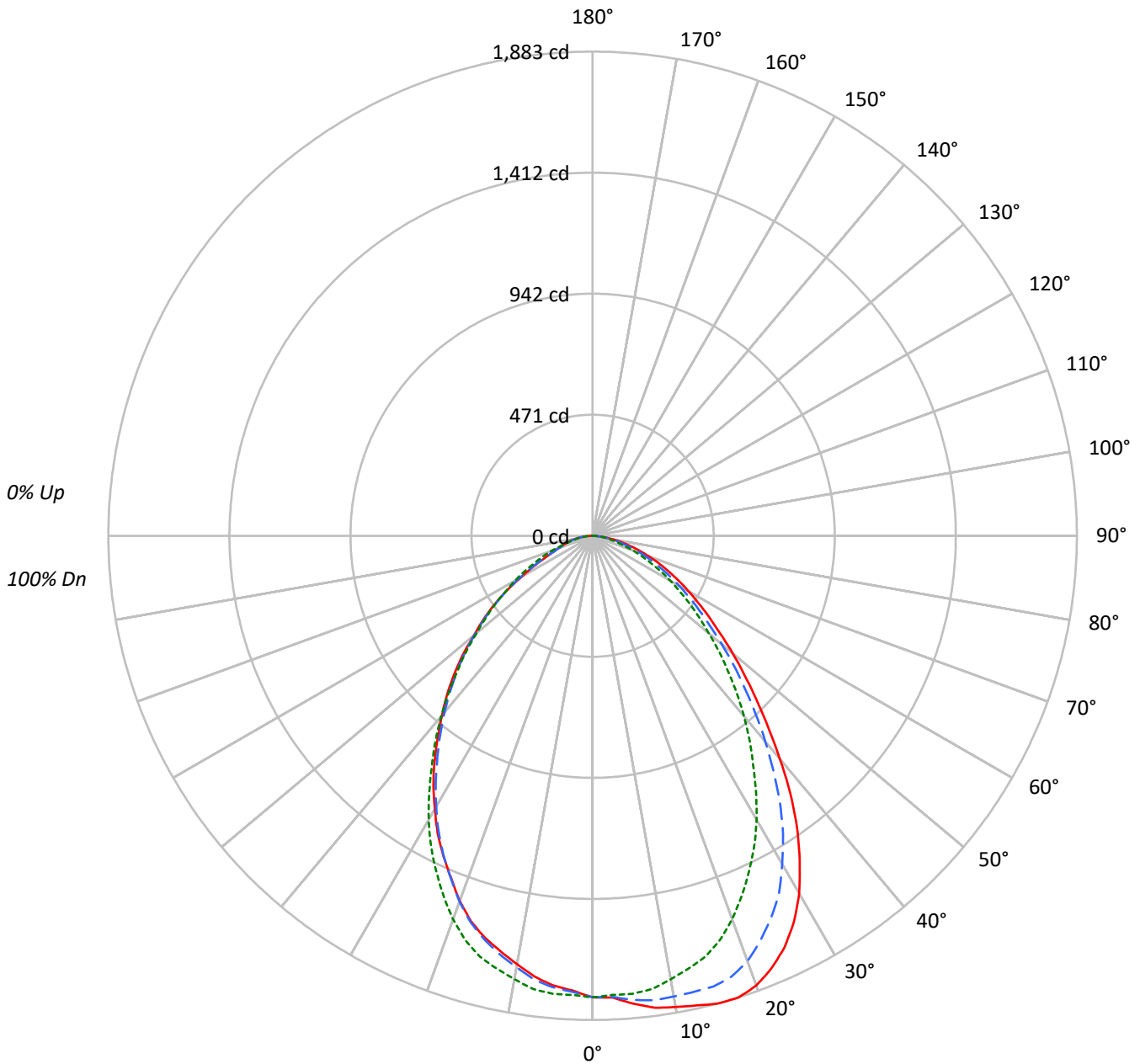
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	98408	98408	98408
5°	100534	98371	96621
10°	103605	97465	94187
15°	106885	96170	91856
20°	108579	92554	88126
25°	106796	87072	83061
30°	101680	80721	77620
35°	92722	72866	71721
40°	81073	65458	65108
45°	69775	57603	58936
50°	60655	50190	51239
55°	52968	44061	44529
60°	47047	38177	34953
65°	41989	32118	26721
70°	36945	26335	22408
75°	31687	20778	21308
80°	25540	17805	20899
85°	16983	15410	18492



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.0	4.8
10°-20°	483.8	13.8
20°-30°	690.7	19.6
30°-40°	723.5	20.6
40°-50°	609.1	17.3
50°-60°	433.5	12.3
60°-70°	253.7	7.2
70°-80°	120.1	3.4
80°-90°	30.9	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°	1344.5	38.2
0°-40°	2067.9	58.8
0°-60°	3110.6	88.5
0°-90°	3515.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3515.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1795	1795	1795	1795	1795	
5°	1827	1812	1788	1763	1756	176
15°	1883	1815	1694	1626	1618	532
25°	1766	1641	1440	1371	1373	808
35°	1386	1270	1089	1052	1072	861
45°	900	834	743	746	760	699
55°	554	508	461	461	466	499
65°	324	287	248	208	206	323
75°	150	125	98	96	101	161
85°	27	22	24	29	29	35
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°	1795.1	1795.1	1795.1	1795.1	1795.1	1795.1	1795.1	1795.1	1795.1
2.5°	1797.5	1797.5	1795.1	1792.6	1787.6	1780.3	1775.4	1770.5	1770.5
5°	1826.9	1822.0	1812.2	1800.0	1787.6	1772.9	1763.1	1755.8	1755.8
7.5°	1851.4	1841.6	1822.0	1800.0	1777.8	1758.2	1741.0	1731.2	1728.8
10°	1861.2	1849.0	1819.6	1785.2	1750.9	1723.9	1704.3	1692.0	1692.0
12.5°	1871.1	1856.3	1817.1	1768.0	1723.9	1687.1	1667.5	1657.7	1655.3
15°	1883.3	1863.7	1814.7	1753.3	1694.5	1652.8	1625.9	1618.5	1618.5
17.5°	1883.3	1858.8	1797.5	1721.4	1647.9	1601.4	1576.7	1569.4	1571.8
20°	1861.2	1834.3	1760.7	1667.5	1586.5	1537.5	1513.0	1508.1	1510.6
22.5°	1819.6	1787.6	1704.3	1603.8	1515.5	1464.0	1441.9	1441.9	1439.5
25°	1765.6	1731.2	1640.6	1535.1	1439.5	1387.9	1370.8	1373.2	1373.2
27.5°	1694.5	1660.2	1569.4	1456.6	1361.0	1309.5	1297.2	1302.1	1304.6
30°	1606.3	1569.4	1473.8	1363.4	1275.2	1223.6	1216.2	1223.6	1226.2
32.5°	1498.3	1471.4	1378.1	1265.4	1181.9	1137.8	1135.4	1142.7	1152.5
35°	1385.5	1356.1	1270.3	1167.2	1088.8	1052.1	1052.1	1064.3	1071.7
37.5°	1262.9	1233.5	1155.0	1069.2	1002.9	968.6	973.5	985.8	988.2
40°	1132.9	1110.9	1044.7	971.1	914.7	887.7	895.1	907.3	909.8
42.5°	1010.3	990.7	936.8	870.6	828.8	809.2	819.0	833.7	838.6
45°	900.0	877.9	833.7	777.3	743.0	733.2	745.5	755.3	760.2
47.5°	799.4	779.8	743.0	691.6	667.1	662.2	674.4	679.3	684.2
50°	711.2	691.6	654.7	608.1	588.5	588.5	598.3	603.2	600.8
52.5°	625.3	608.1	573.8	534.6	522.3	522.3	529.7	532.2	537.1
55°	554.2	537.1	507.6	470.9	461.0	456.1	461.0	461.0	465.9
57.5°	488.0	473.3	446.3	412.0	399.7	394.8	392.3	389.9	394.8
60°	429.1	416.9	387.4	358.0	348.2	336.0	326.2	316.4	318.8
62.5°	375.2	362.9	336.0	306.6	296.8	279.5	267.2	255.0	259.9
65°	323.7	311.5	287.0	262.3	247.6	228.0	208.4	201.1	206.0
67.5°	277.0	267.2	242.7	218.2	206.0	183.9	164.3	164.3	166.8
70°	230.5	220.7	201.1	179.0	164.3	144.7	137.4	139.8	139.8
72.5°	188.8	181.5	161.9	142.3	127.6	115.3	115.3	117.8	120.2
75°	149.6	144.7	125.1	107.9	98.1	90.7	95.7	98.1	100.6
77.5°	115.3	107.9	93.1	80.9	73.5	76.0	80.9	83.3	85.8
80°	80.9	78.4	66.2	58.8	56.4	58.8	63.7	66.2	66.2
82.5°	51.5	49.0	41.7	39.2	39.2	41.7	46.6	46.6	46.6
85°	27.0	24.5	22.1	22.1	24.5	27.0	29.4	29.4	29.4
87.5°	9.8	7.4	9.8	9.8	12.3	12.3	12.3	12.3	12.3
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)