

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: P582322

Luminaire Tested: **HC635D010-HM63040835-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582322
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC635D010-HM63040835-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3747.7 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

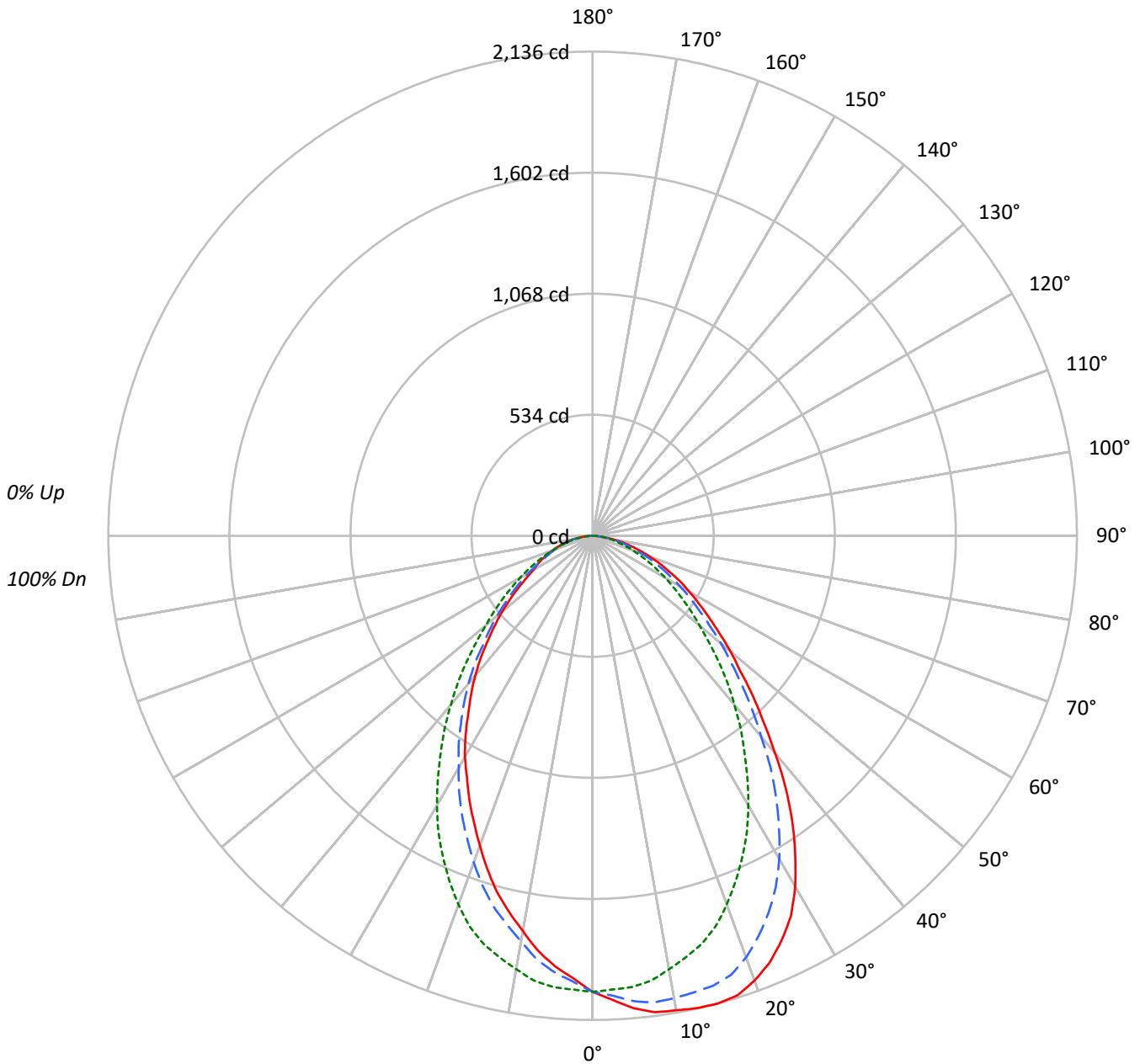
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	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	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	110293	110293	110293
5°	115182	109971	104903
10°	118329	108075	98579
15°	121249	105733	92361
20°	121799	100943	84830
25°	119239	94505	77805
30°	113125	86906	71308
35°	102747	78106	63972
40°	89525	69566	57551
45°	77465	60882	50594
50°	67665	52425	44340
55°	59783	46068	38049
60°	53735	40381	32958
65°	48124	35114	31975
70°	42972	29941	29941
75°	37278	25248	28107
80°	29928	21373	25635
85°	20379	18744	22140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.1	5.0
10°-20°	525.6	14.0
20°-30°	732.5	19.5
30°-40°	754.8	20.1
40°-50°	625.5	16.7
50°-60°	449.5	12.0
60°-70°	286.3	7.6
70°-80°	147.0	3.9
80°-90°	37.4	1.0
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°	1447.2	38.6
0°-40°	2202.0	58.8
0°-60°	3277.1	87.4
0°-90°	3747.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3747.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2012	2012	2012	2012	2012	
5°	2093	2061	1998	1933	1906	201
15°	2136	2055	1863	1692	1627	602
25°	1971	1836	1562	1362	1286	903
35°	1535	1411	1167	1013	956	954
45°	999	929	785	685	653	773
55°	626	574	482	428	398	563
65°	371	330	271	236	246	372
75°	176	152	119	124	133	188
85°	32	30	30	32	35	42
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°	2011.9	2011.9	2011.9	2011.9	2011.9	2011.9	2011.9	2011.9	2011.9
2.5°	2049.8	2041.7	2030.8	2020.1	2003.7	1984.8	1968.6	1963.1	1955.1
5°	2093.1	2082.3	2060.7	2033.6	1998.4	1963.1	1933.4	1914.5	1906.3
7.5°	2120.2	2106.7	2076.9	2030.8	1979.5	1928.0	1884.6	1857.5	1846.8
10°	2125.7	2112.2	2071.5	2009.2	1941.5	1871.1	1816.9	1784.5	1770.9
12.5°	2133.7	2114.8	2063.4	1990.2	1903.6	1822.4	1754.7	1714.1	1700.6
15°	2136.4	2114.8	2055.2	1965.9	1863.0	1765.6	1692.4	1643.6	1627.4
17.5°	2125.7	2101.3	2030.8	1922.5	1806.2	1703.2	1616.5	1565.2	1543.5
20°	2087.8	2060.7	1979.5	1857.5	1730.3	1622.0	1532.6	1478.5	1454.1
22.5°	2039.0	2003.7	1911.8	1781.8	1649.1	1535.3	1446.0	1391.8	1367.5
25°	1971.3	1938.9	1835.9	1697.8	1562.4	1443.2	1362.0	1305.2	1286.3
27.5°	1892.8	1854.8	1749.2	1611.2	1473.1	1354.0	1275.4	1223.9	1199.6
30°	1787.1	1752.0	1646.4	1508.2	1372.9	1261.9	1180.7	1137.2	1126.5
32.5°	1662.6	1632.9	1529.9	1399.9	1269.9	1167.1	1099.4	1053.3	1042.5
35°	1535.3	1500.2	1410.8	1289.0	1167.1	1075.0	1012.7	972.1	955.9
37.5°	1397.2	1364.7	1289.0	1180.7	1072.4	985.6	931.5	896.3	880.0
40°	1251.0	1226.6	1156.3	1069.6	972.1	896.3	850.3	820.5	804.2
42.5°	1115.7	1091.3	1042.5	961.3	880.0	812.3	771.7	744.7	731.1
45°	999.2	977.5	928.8	858.3	785.3	728.4	685.0	666.1	652.6
47.5°	882.7	871.9	828.6	763.6	695.9	647.2	617.3	595.8	584.9
50°	793.4	779.9	739.3	671.5	614.7	576.7	549.7	530.8	519.9
52.5°	701.4	687.8	649.9	593.1	547.0	511.7	484.7	468.4	457.6
55°	625.5	614.7	574.0	522.6	482.0	452.2	427.8	408.9	398.1
57.5°	555.1	544.3	506.4	457.6	422.5	395.4	373.7	357.5	343.9
60°	490.1	482.0	444.0	398.1	368.3	341.2	322.2	308.7	300.6
62.5°	433.3	417.0	384.5	343.9	316.8	295.1	276.2	268.1	273.5
65°	371.0	362.8	330.4	295.1	270.7	249.2	235.6	241.0	246.5
67.5°	319.5	308.7	281.6	249.2	227.4	211.2	203.1	213.9	216.6
70°	268.1	257.2	232.8	205.7	186.8	176.0	176.0	184.2	186.8
72.5°	219.3	211.2	189.5	167.9	154.4	146.2	151.6	157.1	159.8
75°	176.0	167.9	151.6	132.7	119.2	119.2	124.5	130.0	132.7
77.5°	135.4	130.0	113.8	100.2	94.8	94.8	100.2	102.9	105.6
80°	94.8	89.4	81.2	73.1	67.7	73.1	78.5	78.5	81.2
82.5°	62.3	59.5	54.1	48.8	48.8	51.5	54.1	56.8	56.8
85°	32.4	32.4	29.8	27.1	29.8	32.4	32.4	35.2	35.2
87.5°	10.9	10.9	10.9	10.9	13.5	13.5	13.5	13.5	13.5
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)