

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: P582404

Luminaire Tested: **HC635D010-HM63040940-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582404
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC635D010-HM63040940-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3696.9 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

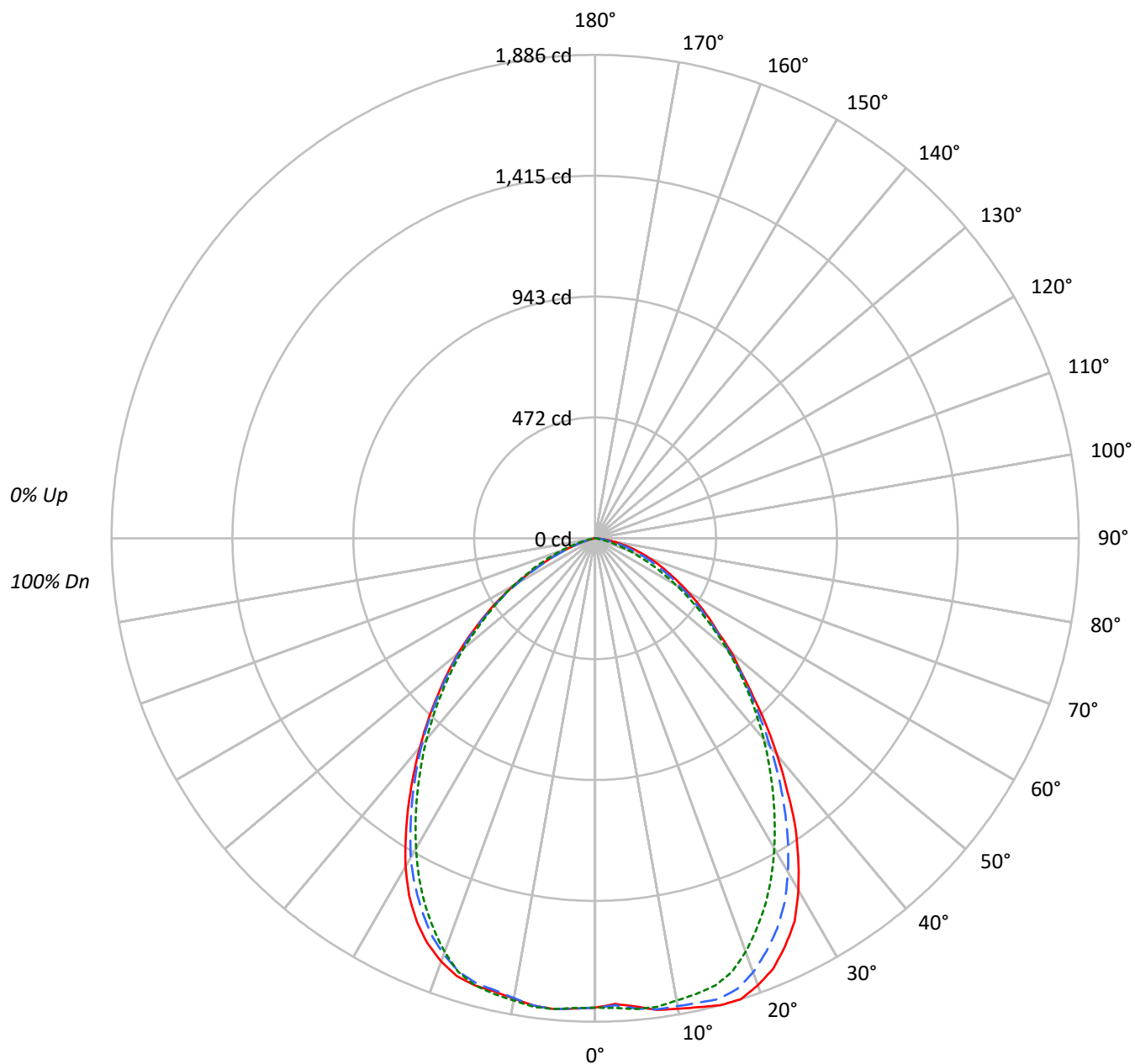
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88		
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77		
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68		
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60		
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53		
6	76	64	56	50	74	63	56	50	62	55	50	60	54	49	58	53	49	47		
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42		
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38		
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35		
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	100381	100381	100381
5°	100902	101447	101447
10°	103733	101930	101518
15°	107027	102515	102515
20°	108276	100167	102483
25°	106107	95153	99659
30°	100364	88425	93609
35°	90828	80863	84852
40°	79012	73158	76000
45°	67519	65216	67519
50°	59248	57141	59469
55°	51697	48142	50034
60°	45709	39986	39449
65°	40549	31547	27033
70°	35807	22279	16317
75°	30479	12603	7879
80°	22730	3915	2368
85°	12454	1572	1572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.7	4.8
10°-20°	513.9	13.9
20°-30°	750.6	20.3
30°-40°	787.2	21.3
40°-50°	663.2	17.9
50°-60°	464.6	12.6
60°-70°	249.1	6.7
70°-80°	83.5	2.3
80°-90°	9.1	0.2
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°	1440.1	39.0
0°-40°	2227.3	60.2
0°-60°	3355.1	90.8
0°-90°	3696.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3696.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1831	1831	1831	1831	1831	
5°	1834	1841	1844	1844	1844	176
15°	1886	1861	1806	1796	1806	532
25°	1754	1680	1573	1600	1648	804
35°	1357	1288	1208	1243	1268	842
45°	871	856	841	864	871	678
55°	541	524	504	514	524	487
65°	313	285	243	201	208	312
75°	144	112	60	37	37	153
85°	20	10	2	2	2	27
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°	1831.1	1831.1	1831.1	1831.1	1831.1	1831.1	1831.1	1831.1	1831.1
2.5°	1818.8	1818.8	1823.7	1828.7	1833.6	1833.6	1836.2	1838.6	1836.2
5°	1833.6	1833.6	1841.1	1843.5	1843.5	1841.1	1843.5	1843.5	1843.5
7.5°	1856.0	1851.0	1853.4	1848.5	1843.5	1841.1	1838.6	1838.6	1838.6
10°	1863.5	1858.4	1853.4	1843.5	1831.1	1823.7	1821.2	1823.7	1823.7
12.5°	1873.4	1868.4	1856.0	1836.2	1821.2	1808.8	1806.3	1811.3	1811.3
15°	1885.8	1880.7	1860.9	1828.7	1806.3	1793.9	1796.4	1801.4	1806.3
17.5°	1885.8	1875.8	1843.5	1801.4	1774.1	1761.7	1771.6	1784.0	1791.5
20°	1856.0	1846.1	1801.4	1749.2	1717.0	1709.5	1726.9	1749.2	1756.7
22.5°	1816.3	1796.4	1744.3	1682.2	1647.6	1647.6	1672.3	1699.6	1709.5
25°	1754.2	1739.3	1679.8	1607.9	1573.1	1570.7	1600.4	1637.7	1647.6
27.5°	1684.8	1665.0	1600.4	1526.0	1488.7	1491.2	1523.5	1560.7	1570.7
30°	1585.5	1560.7	1503.7	1431.7	1396.9	1406.8	1439.1	1466.5	1478.8
32.5°	1473.8	1451.5	1399.5	1332.5	1302.6	1312.5	1339.8	1364.7	1374.6
35°	1357.2	1332.5	1287.8	1228.3	1208.3	1218.2	1243.1	1262.9	1267.9
37.5°	1225.7	1208.3	1176.1	1129.0	1114.0	1126.5	1146.3	1158.7	1163.7
40°	1104.1	1089.3	1062.0	1027.2	1022.3	1032.2	1052.1	1059.5	1062.0
42.5°	985.1	972.7	955.3	930.4	930.4	940.4	957.8	962.8	965.2
45°	870.9	863.5	856.0	836.2	841.2	853.5	863.5	870.9	870.9
47.5°	771.6	774.2	764.3	749.3	754.3	766.7	774.2	781.5	781.5
50°	694.7	687.2	677.3	662.5	670.0	679.9	689.8	694.7	697.3
52.5°	605.4	603.0	595.5	578.1	583.0	588.1	598.0	605.4	607.9
55°	540.9	533.4	523.5	503.7	503.7	508.7	513.6	518.6	523.5
57.5°	478.9	471.5	456.5	434.2	431.8	431.8	429.2	434.2	441.7
60°	416.9	414.4	392.0	372.2	364.7	357.3	347.4	349.9	359.8
62.5°	362.2	357.3	337.5	312.6	297.7	285.3	273.0	270.5	280.4
65°	312.6	307.6	285.3	260.5	243.2	220.8	201.0	201.0	208.4
67.5°	267.9	258.0	238.2	210.9	188.6	161.3	141.4	146.3	148.9
70°	223.4	215.9	193.5	166.3	139.0	111.7	99.2	101.8	101.8
72.5°	183.6	173.6	151.4	124.1	96.7	72.0	67.0	64.5	64.5
75°	143.9	134.0	111.7	84.4	59.5	42.1	37.2	37.2	37.2
77.5°	104.2	96.7	76.9	52.0	32.2	19.8	17.4	14.9	14.9
80°	72.0	64.5	47.1	27.3	12.4	7.5	7.5	7.5	7.5
82.5°	42.1	34.8	22.3	12.4	5.0	2.5	2.5	2.5	2.5
85°	19.8	14.9	9.9	5.0	2.5	2.5	2.5	2.5	2.5
87.5°	2.5	2.5	2.5	0.0	0.0	0.0	0.0	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)