

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: P582368

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582368
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-HM63040930-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3655.1 lumens
Efficiency: N/A
Efficacy: 108.5 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

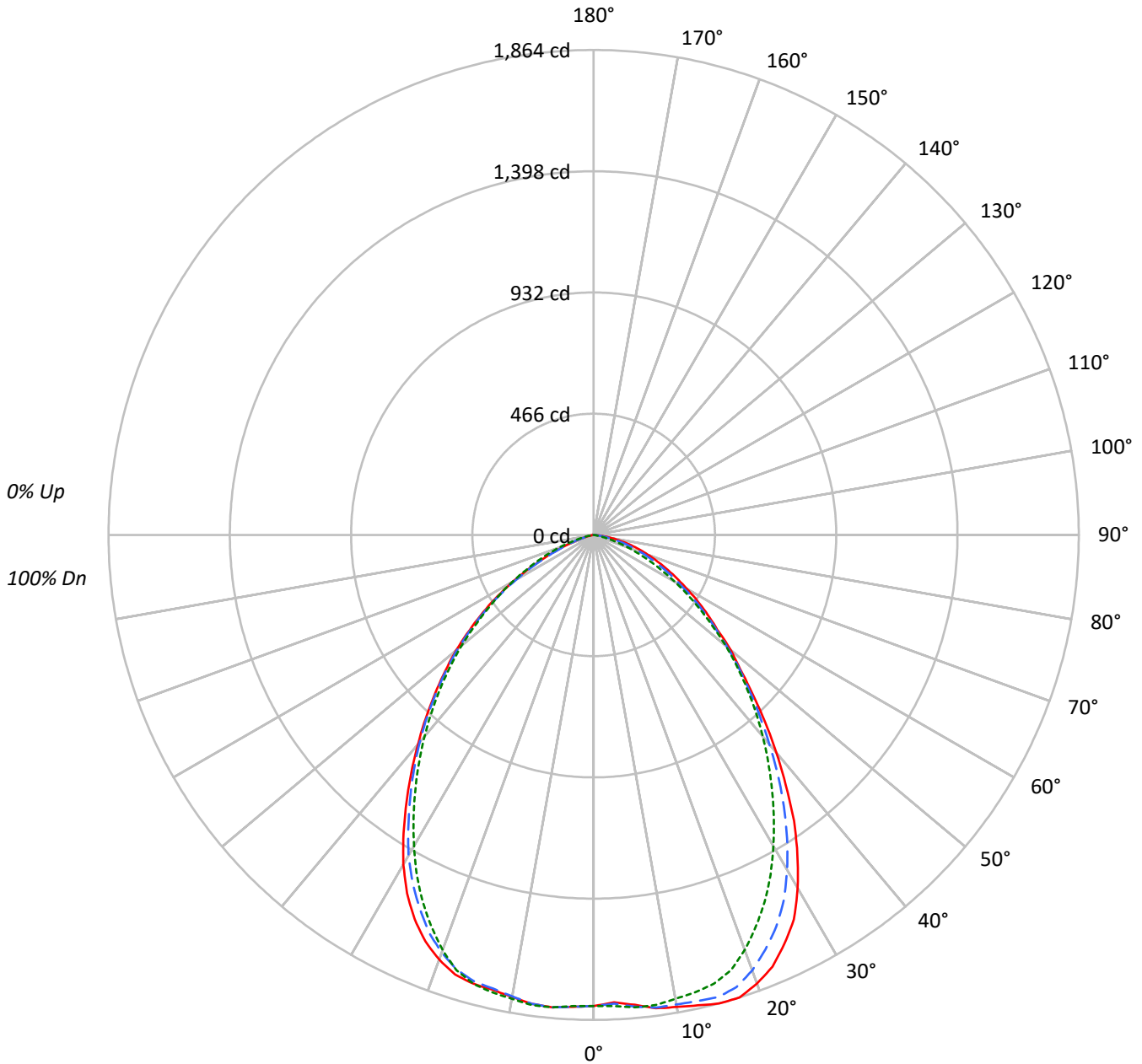
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	94	92	90	88				88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77				77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68				68
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60				60
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	62	55	50	60	54	49	58	53	49	47				47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	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°	99252	99252	99252
5°	99763	100302	100302
10°	102553	100783	100371
15°	105812	101363	101363
20°	107051	99035	101322
25°	104909	94082	98528
30°	99230	87425	92552
35°	89804	79960	83895
40°	78125	72328	75134
45°	66759	64472	66759
50°	58582	56493	58787
55°	51114	47597	49480
60°	45194	39536	38999
65°	40095	31184	26734
70°	35391	22023	16125
75°	30140	12476	7795
80°	22478	3883	2336
85°	12328	1572	1572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.7	4.8
10°-20°	508.1	13.9
20°-30°	742.1	20.3
30°-40°	778.3	21.3
40°-50°	655.7	17.9
50°-60°	459.4	12.6
60°-70°	246.3	6.7
70°-80°	82.6	2.3
80°-90°	9.0	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°	1423.9	39.0
0°-40°	2202.2	60.2
0°-60°	3317.2	90.8
0°-90°	3655.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3655.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1810	1810	1810	1810	1810	
5°	1813	1820	1823	1823	1823	174
15°	1864	1840	1786	1776	1786	526
25°	1734	1661	1555	1582	1629	795
35°	1342	1273	1195	1229	1254	833
45°	861	846	832	854	861	671
55°	535	518	498	508	518	481
65°	309	282	240	199	206	309
75°	142	110	59	37	37	151
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°	1810.5	1810.5	1810.5	1810.5	1810.5	1810.5	1810.5	1810.5	1810.5
2.5°	1798.2	1798.2	1803.1	1808.0	1812.9	1812.9	1815.4	1817.8	1815.4
5°	1812.9	1812.9	1820.3	1822.7	1822.7	1820.3	1822.7	1822.7	1822.7
7.5°	1835.0	1830.1	1832.5	1827.6	1822.7	1820.3	1817.8	1817.8	1817.8
10°	1842.3	1837.4	1832.5	1822.7	1810.5	1803.1	1800.7	1803.1	1803.1
12.5°	1852.1	1847.2	1835.0	1815.4	1800.7	1788.4	1786.0	1790.9	1790.9
15°	1864.4	1859.5	1839.9	1808.0	1786.0	1773.7	1776.2	1781.1	1786.0
17.5°	1864.4	1854.6	1822.7	1781.1	1754.0	1741.7	1751.6	1763.9	1771.3
20°	1835.0	1825.2	1781.1	1729.5	1697.6	1690.3	1707.4	1729.5	1736.8
22.5°	1795.8	1776.2	1724.6	1663.3	1628.9	1628.9	1653.5	1680.5	1690.3
25°	1734.4	1719.7	1660.9	1589.7	1555.4	1552.9	1582.3	1619.1	1628.9
27.5°	1665.8	1646.2	1582.3	1508.7	1471.9	1474.4	1506.2	1543.1	1552.9
30°	1567.6	1543.1	1486.6	1415.5	1381.1	1390.9	1422.9	1449.9	1462.1
32.5°	1457.2	1435.2	1383.6	1317.4	1287.9	1297.7	1324.8	1349.3	1359.1
35°	1341.9	1317.4	1273.2	1214.4	1194.8	1204.6	1229.1	1248.7	1253.6
37.5°	1211.9	1194.8	1162.8	1116.2	1101.5	1113.8	1133.4	1145.6	1150.5
40°	1091.7	1077.0	1049.9	1015.6	1010.7	1020.5	1040.1	1047.5	1049.9
42.5°	974.0	961.6	944.5	919.9	919.9	929.7	946.9	951.8	954.3
45°	861.1	853.8	846.3	826.7	831.6	843.9	853.8	861.1	861.1
47.5°	763.0	765.4	755.6	740.9	745.8	758.1	765.4	772.8	772.8
50°	686.9	679.5	669.7	655.0	662.4	672.2	682.0	686.9	689.3
52.5°	598.6	596.1	588.8	571.6	576.5	581.4	591.2	598.6	601.0
55°	534.8	527.5	517.7	498.0	498.0	502.9	507.8	512.8	517.7
57.5°	473.5	466.1	451.4	429.3	426.9	426.9	424.4	429.3	436.7
60°	412.2	409.7	387.6	368.0	360.6	353.3	343.4	345.9	355.7
62.5°	358.2	353.3	333.6	309.1	294.4	282.1	269.8	267.4	277.2
65°	309.1	304.2	282.1	257.6	240.4	218.3	198.7	198.7	206.1
67.5°	264.9	255.1	235.5	208.5	186.5	159.4	139.8	144.7	147.2
70°	220.8	213.4	191.4	164.3	137.4	110.4	98.1	100.6	100.6
72.5°	181.6	171.8	149.6	122.7	95.7	71.2	66.3	63.8	63.8
75°	142.3	132.5	110.4	83.4	58.9	41.7	36.8	36.8	36.8
77.5°	103.0	95.7	76.1	51.5	31.9	19.6	17.2	14.7	14.7
80°	71.2	63.8	46.6	27.0	12.3	7.4	7.4	7.4	7.4
82.5°	41.7	34.3	22.1	12.3	4.9	2.5	2.5	2.5	2.5
85°	19.6	14.7	9.8	4.9	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)