

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: P593267

Luminaire Tested: **HC635D010-HM63040950-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593267
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-HM63040950-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3555.5 lumens
Efficiency: N/A
Efficacy: 105.5 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

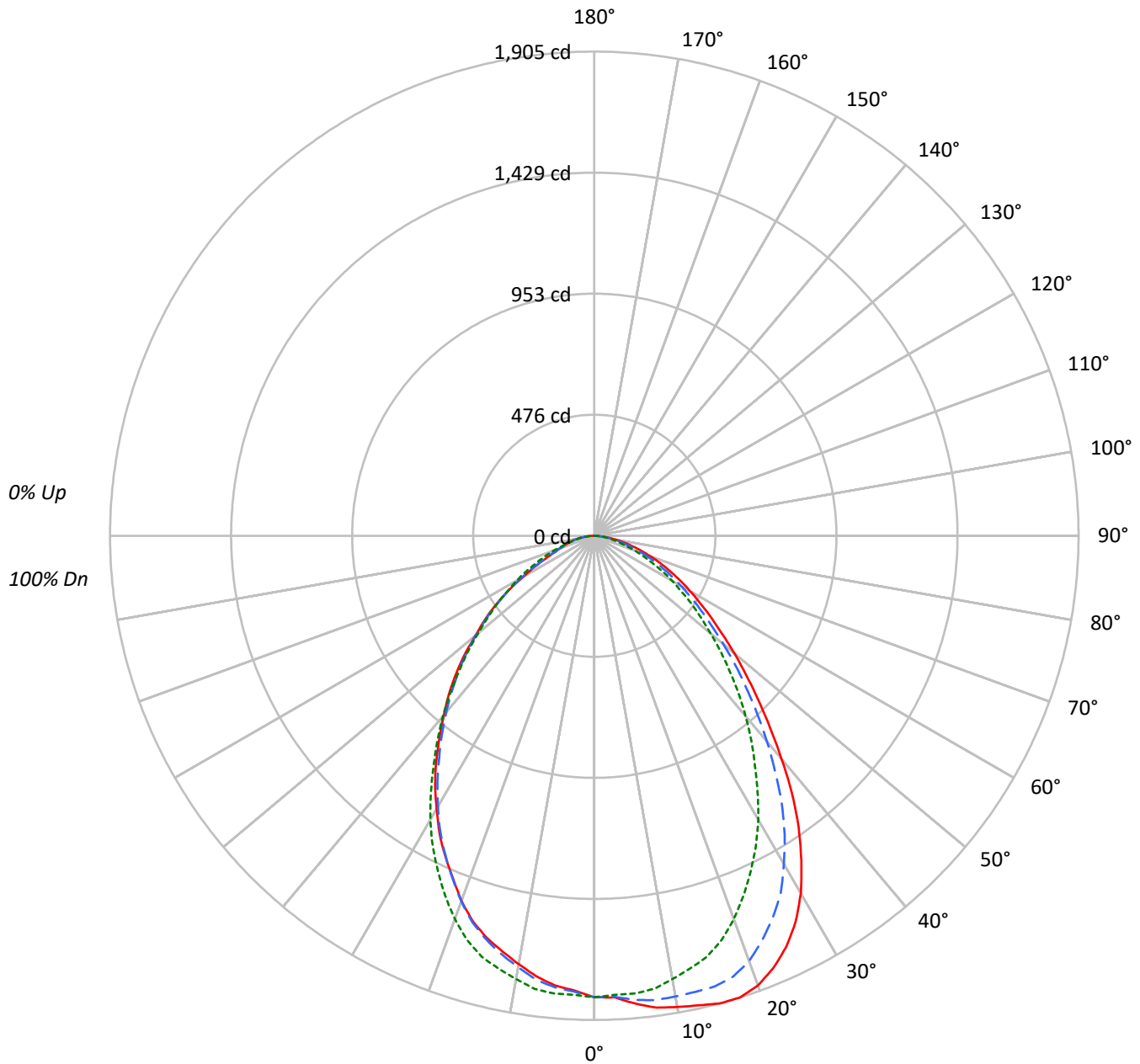
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87			
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76			
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58			
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52			
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	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	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	99526	99526	99526
5°	101678	99493	97722
10°	104791	98579	95267
15°	108105	97271	92906
20°	109822	93616	89129
25°	108012	88058	84017
30°	102839	81645	78499
35°	93779	73696	72538
40°	82004	66203	65852
45°	70573	58262	59603
50°	61337	50770	51828
55°	53570	44567	45035
60°	47584	38615	35348
65°	42456	32507	27020
70°	37378	26639	22648
75°	32026	21011	21520
80°	25824	18026	21152
85°	17171	15662	18744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.9	4.8
10°-20°	489.4	13.8
20°-30°	698.6	19.6
30°-40°	731.7	20.6
40°-50°	616.1	17.3
50°-60°	438.5	12.3
60°-70°	256.7	7.2
70°-80°	121.4	3.4
80°-90°	31.2	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°	1359.8	38.2
0°-40°	2091.5	58.8
0°-60°	3146.1	88.5
0°-90°	3555.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3555.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1816	1816	1816	1816	1816	
5°	1848	1833	1808	1783	1776	178
15°	1905	1835	1714	1644	1637	538
25°	1786	1659	1456	1386	1389	817
35°	1401	1285	1101	1064	1084	870
45°	910	843	752	754	769	707
55°	560	513	466	466	471	505
65°	327	290	251	211	208	326
75°	151	126	99	97	102	162
85°	27	22	25	30	30	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°	1815.5	1815.5	1815.5	1815.5	1815.5	1815.5	1815.5	1815.5	1815.5
2.5°	1818.0	1818.0	1815.5	1813.1	1808.0	1800.7	1795.7	1790.8	1790.8
5°	1847.7	1842.8	1832.9	1820.5	1808.0	1793.2	1783.3	1775.8	1775.8
7.5°	1872.6	1862.6	1842.8	1820.5	1798.1	1778.3	1761.0	1751.1	1748.5
10°	1882.5	1870.1	1840.4	1805.6	1770.9	1743.6	1723.8	1711.4	1711.4
12.5°	1892.4	1877.5	1837.8	1788.2	1743.6	1706.4	1686.5	1676.6	1674.2
15°	1904.8	1884.9	1835.3	1773.4	1713.9	1671.6	1644.4	1637.0	1637.0
17.5°	1904.8	1880.0	1818.0	1741.2	1666.7	1619.6	1594.8	1587.4	1589.8
20°	1882.5	1855.2	1780.8	1686.5	1604.7	1555.1	1530.3	1525.4	1527.8
22.5°	1840.4	1808.0	1723.8	1622.0	1532.7	1480.7	1458.4	1458.4	1455.8
25°	1785.7	1751.1	1659.2	1552.6	1455.8	1403.8	1386.4	1389.0	1389.0
27.5°	1713.9	1679.1	1587.4	1473.2	1376.5	1324.4	1312.1	1317.0	1319.5
30°	1624.6	1587.4	1490.6	1379.0	1289.8	1237.6	1230.1	1237.6	1240.1
32.5°	1515.5	1488.2	1393.9	1279.8	1195.5	1150.8	1148.3	1155.8	1165.7
35°	1401.3	1371.6	1284.8	1180.5	1101.2	1064.1	1064.1	1076.4	1083.9
37.5°	1277.3	1247.5	1168.2	1081.3	1014.4	979.7	984.6	997.1	999.5
40°	1145.9	1123.6	1056.6	982.1	925.1	897.9	905.2	917.7	920.2
42.5°	1021.8	1002.0	947.5	880.5	838.3	818.4	828.3	843.3	848.3
45°	910.3	888.0	843.3	786.2	751.5	741.6	754.0	763.9	768.8
47.5°	808.5	788.7	751.5	699.4	674.6	669.6	682.1	687.0	692.0
50°	719.2	699.4	662.3	615.1	595.3	595.3	605.2	610.1	607.7
52.5°	632.5	615.1	580.3	540.7	528.3	528.3	535.8	538.2	543.1
55°	560.5	543.1	513.4	476.3	466.3	461.3	466.3	466.3	471.2
57.5°	493.5	478.7	451.4	416.6	404.2	399.3	396.8	394.3	399.3
60°	434.0	421.6	391.9	362.1	352.2	339.8	329.9	320.0	322.4
62.5°	379.5	367.0	339.8	310.1	300.2	282.8	270.4	257.9	262.9
65°	327.3	315.0	290.2	265.4	250.6	230.7	210.9	203.4	208.3
67.5°	280.3	270.4	245.5	220.8	208.3	186.0	166.2	166.2	168.6
70°	233.2	223.2	203.4	181.0	166.2	146.3	138.9	141.3	141.3
72.5°	190.9	183.6	163.7	143.9	129.0	116.6	116.6	119.0	121.5
75°	151.2	146.3	126.5	109.1	99.2	91.7	96.7	99.2	101.6
77.5°	116.6	109.1	94.3	81.8	74.5	76.9	81.8	84.4	86.8
80°	81.8	79.4	67.0	59.5	57.1	59.5	64.5	67.0	67.0
82.5°	52.0	49.6	42.1	39.7	39.7	42.1	47.1	47.1	47.1
85°	27.3	24.9	22.3	22.3	24.9	27.3	29.8	29.8	29.8
87.5°	9.9	7.5	9.9	9.9	12.4	12.4	12.4	12.4	12.4
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)