

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: P582278

Luminaire Tested: **HC635D010-HM63040827-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582278
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-HM63040827-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3624.2 lumens
Efficiency: N/A
Efficacy: 107.5 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

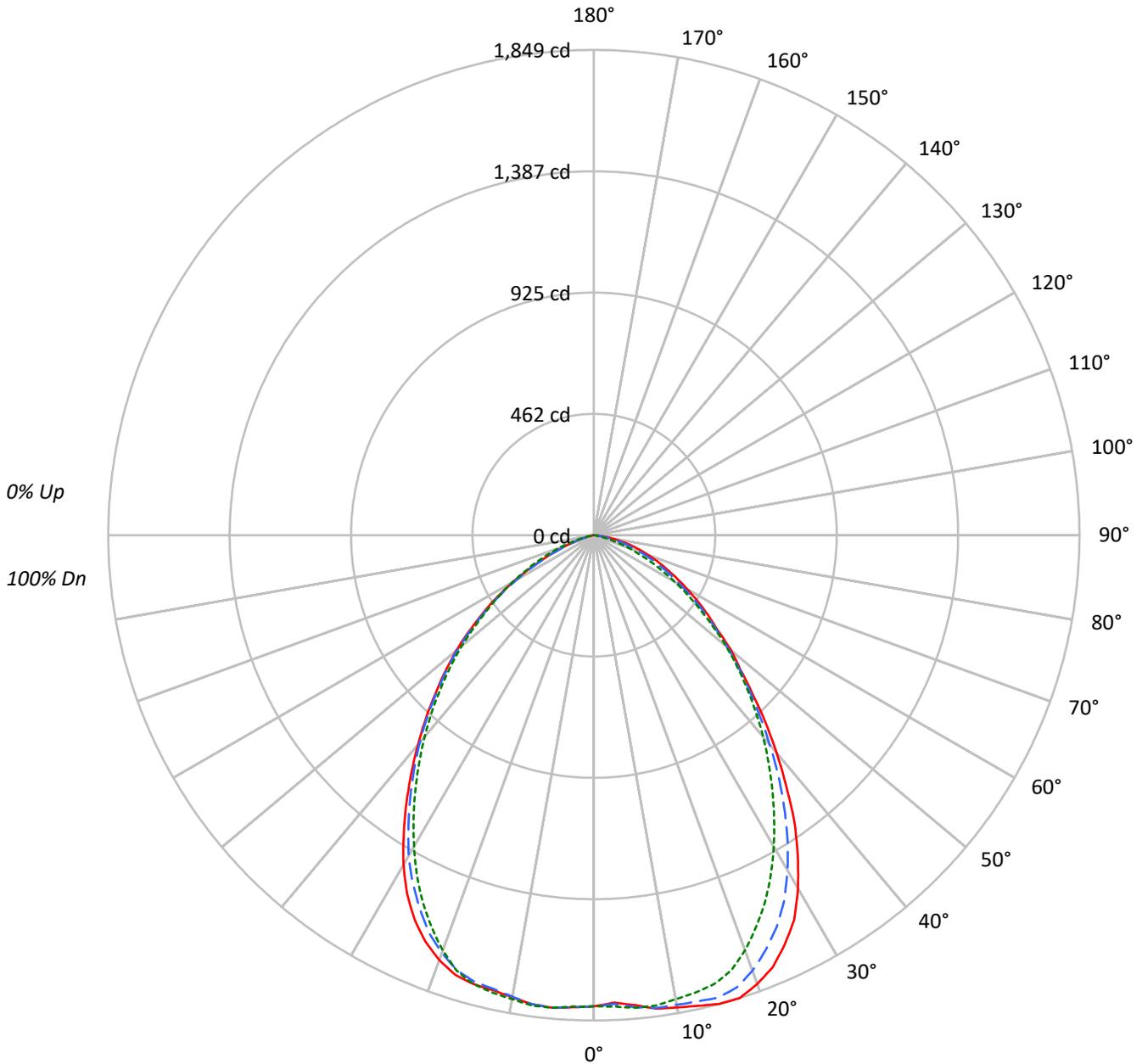
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
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	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88	88	88	88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77	77	77	77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68	68	68	68
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	59	59	59	59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53	53	53	53
6	76	64	56	50	74	63	56	50	62	55	50	60	54	49	58	53	49	47	47	47	47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42	42	42	42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38	38	38	38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35	35	35	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32	32	32	32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	98413	98413	98413
5°	98916	99455	99455
10°	101690	99931	99519
15°	104915	100500	100500
20°	106147	98201	100465
25°	104020	93284	97693
30°	98389	86691	91774
35°	89041	79277	83185
40°	77459	71720	74504
45°	66193	63929	66193
50°	58088	56015	58292
55°	50684	47195	49050
60°	44810	39207	38670
65°	39758	30924	26501
70°	35086	21831	15996
75°	29886	12370	7731
80°	22257	3820	2336
85°	12265	1572	1572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.2	4.8
10°-20°	503.8	13.9
20°-30°	735.8	20.3
30°-40°	771.7	21.3
40°-50°	650.1	17.9
50°-60°	455.5	12.6
60°-70°	244.2	6.7
70°-80°	81.9	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°	1411.8	39.0
0°-40°	2183.5	60.2
0°-60°	3289.1	90.8
0°-90°	3624.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3624.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1795	1795	1795	1795	1795	
5°	1798	1805	1807	1807	1807	173
15°	1849	1824	1771	1761	1771	521
25°	1720	1647	1542	1569	1615	788
35°	1330	1262	1185	1219	1243	826
45°	854	839	825	846	854	665
55°	530	513	494	504	513	477
65°	306	280	238	197	204	306
75°	141	110	58	36	36	150
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°	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2
2.5°	1782.9	1782.9	1787.8	1792.7	1797.5	1797.5	1800.0	1802.4	1800.0
5°	1797.5	1797.5	1804.9	1807.3	1807.3	1804.9	1807.3	1807.3	1807.3
7.5°	1819.5	1814.6	1817.0	1812.1	1807.3	1804.9	1802.4	1802.4	1802.4
10°	1826.8	1821.9	1817.0	1807.3	1795.2	1787.8	1785.4	1787.8	1787.8
12.5°	1836.5	1831.6	1819.5	1800.0	1785.4	1773.3	1770.8	1775.7	1775.7
15°	1848.6	1843.7	1824.4	1792.7	1770.8	1758.7	1761.1	1765.9	1770.8
17.5°	1848.6	1839.0	1807.3	1765.9	1739.2	1727.0	1736.7	1749.0	1756.2
20°	1819.5	1809.8	1765.9	1714.9	1683.3	1675.9	1693.0	1714.9	1722.1
22.5°	1780.5	1761.1	1710.0	1649.2	1615.1	1615.1	1639.5	1666.2	1675.9
25°	1719.7	1705.1	1646.8	1576.3	1542.2	1539.7	1568.9	1605.4	1615.1
27.5°	1651.7	1632.2	1568.9	1496.0	1459.5	1461.9	1493.5	1530.1	1539.7
30°	1554.3	1530.1	1474.0	1403.6	1369.5	1379.2	1410.8	1437.6	1449.8
32.5°	1444.9	1422.9	1371.9	1306.2	1277.0	1286.7	1313.6	1337.8	1347.5
35°	1330.5	1306.2	1262.5	1204.1	1184.6	1194.3	1218.7	1238.1	1243.0
37.5°	1201.7	1184.6	1153.0	1106.8	1092.2	1104.3	1123.8	1136.0	1140.9
40°	1082.4	1067.8	1041.1	1007.0	1002.2	1011.9	1031.4	1038.6	1041.1
42.5°	965.7	953.6	936.5	912.1	912.1	921.9	939.0	943.8	946.2
45°	853.8	846.5	839.2	819.7	824.6	836.7	846.5	853.8	853.8
47.5°	756.4	758.9	749.2	734.6	739.4	751.7	758.9	766.3	766.3
50°	681.1	673.8	664.0	649.4	656.8	666.5	676.3	681.1	683.5
52.5°	593.5	591.1	583.7	566.8	571.6	576.5	586.2	593.5	596.0
55°	530.3	522.9	513.2	493.8	493.8	498.7	503.6	508.3	513.2
57.5°	469.5	462.1	447.5	425.7	423.3	423.3	420.8	425.7	433.0
60°	408.7	406.2	384.3	364.9	357.6	350.2	340.5	343.0	352.7
62.5°	355.1	350.2	330.8	306.5	291.9	279.7	267.6	265.1	274.8
65°	306.5	301.7	279.7	255.5	238.4	216.5	197.0	197.0	204.3
67.5°	262.7	253.0	233.5	206.8	184.9	158.1	138.6	143.5	146.0
70°	218.9	211.6	189.8	163.0	136.2	109.5	97.3	99.8	99.8
72.5°	180.0	170.3	148.3	121.6	94.9	70.5	65.7	63.3	63.3
75°	141.1	131.4	109.5	82.7	58.4	41.3	36.5	36.5	36.5
77.5°	102.1	94.9	75.4	51.1	31.6	19.5	17.0	14.6	14.6
80°	70.5	63.3	46.2	26.7	12.1	7.4	7.4	7.4	7.4
82.5°	41.3	34.1	21.9	12.1	4.9	2.5	2.5	2.5	2.5
85°	19.5	14.6	9.7	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)