

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: P582386

Luminaire Tested: **HC635D010-HM63040935-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582386
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-HM63040935-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3604.0 lumens
Efficiency: N/A
Efficacy: 106.9 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

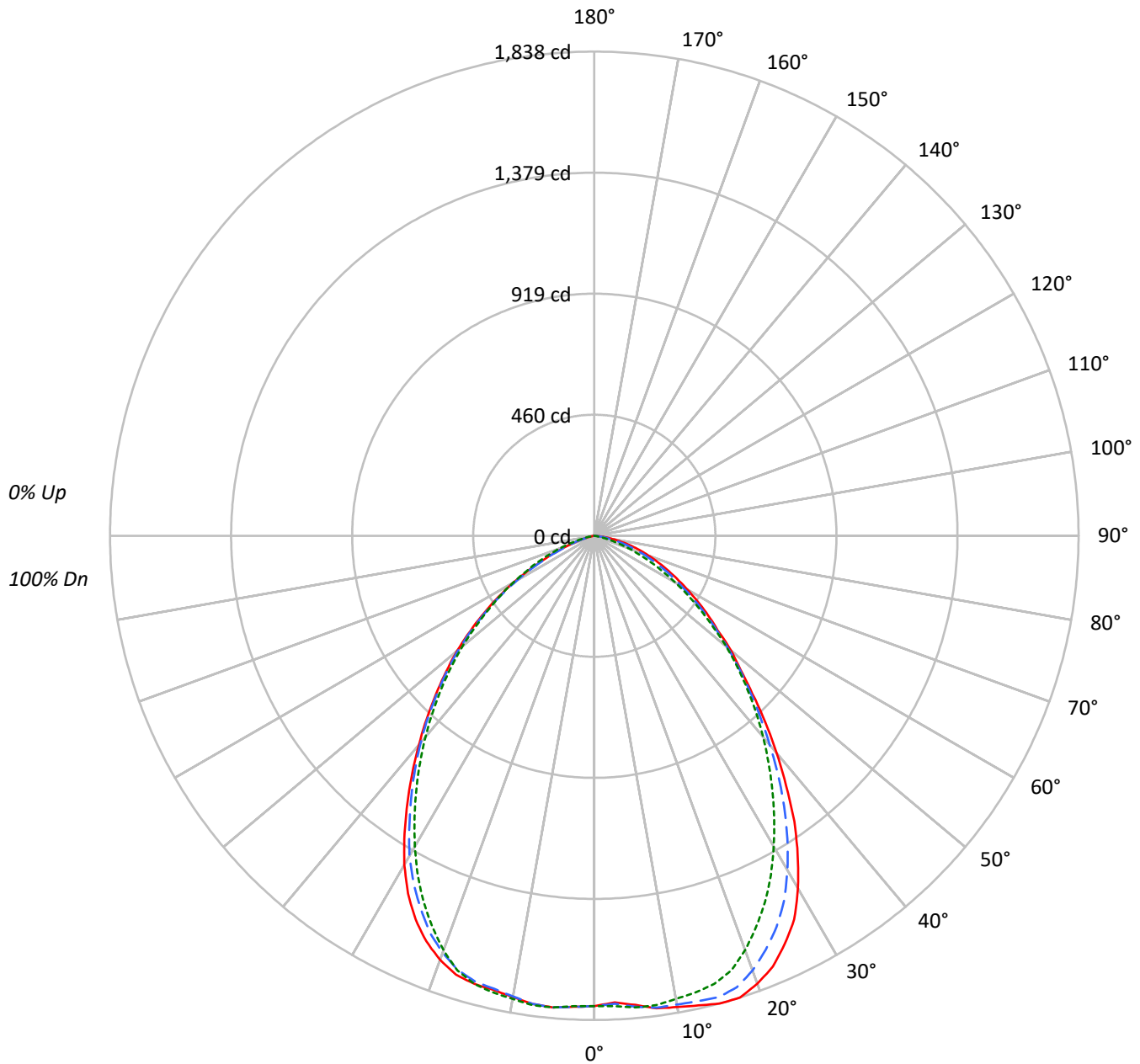
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	97865	97865	97865
5°	98371	98899	98899
10°	101123	99375	98968
15°	104337	99944	99944
20°	105552	97647	99910
25°	103439	92763	97149
30°	97844	86209	91261
35°	88546	78835	82724
40°	77030	71319	74082
45°	65821	63580	65821
50°	57764	55700	57968
55°	50407	46937	48772
60°	44547	38988	38451
65°	39537	30743	26358
70°	34878	21718	15900
75°	29717	12285	7689
80°	22130	3820	2273
85°	12202	1572	1572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.2	4.8
10°-20°	501.0	13.9
20°-30°	731.7	20.3
30°-40°	767.4	21.3
40°-50°	646.5	17.9
50°-60°	453.0	12.6
60°-70°	242.8	6.7
70°-80°	81.4	2.3
80°-90°	8.9	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°	1403.9	39.0
0°-40°	2171.3	60.2
0°-60°	3270.8	90.8
0°-90°	3604.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3604.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1785	1785	1785	1785	1785	
5°	1788	1795	1797	1797	1797	172
15°	1838	1814	1761	1751	1761	519
25°	1710	1638	1534	1560	1606	783
35°	1323	1256	1178	1212	1236	821
45°	849	834	820	842	849	661
55°	527	510	491	501	510	475
65°	305	278	237	196	203	304
75°	140	109	58	36	36	149
85°	19	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°	1785.2	1785.2	1785.2	1785.2	1785.2	1785.2	1785.2	1785.2	1785.2
2.5°	1773.0	1773.0	1777.9	1782.7	1787.6	1787.6	1789.9	1792.4	1789.9
5°	1787.6	1787.6	1794.8	1797.2	1797.2	1794.8	1797.2	1797.2	1797.2
7.5°	1809.3	1804.5	1806.9	1802.1	1797.2	1794.8	1792.4	1792.4	1792.4
10°	1816.6	1811.8	1806.9	1797.2	1785.2	1777.9	1775.5	1777.9	1777.9
12.5°	1826.2	1821.5	1809.3	1789.9	1775.5	1763.3	1761.0	1765.8	1765.8
15°	1838.4	1833.5	1814.2	1782.7	1761.0	1748.9	1751.3	1756.1	1761.0
17.5°	1838.4	1828.7	1797.2	1756.1	1729.5	1717.4	1727.0	1739.2	1746.4
20°	1809.3	1799.6	1756.1	1705.3	1673.8	1666.6	1683.5	1705.3	1712.6
22.5°	1770.6	1751.3	1700.4	1640.0	1606.1	1606.1	1630.3	1656.9	1666.6
25°	1710.1	1695.7	1637.5	1567.4	1533.6	1531.1	1560.2	1596.5	1606.1
27.5°	1642.4	1623.1	1560.2	1487.6	1451.3	1453.7	1485.2	1521.5	1531.1
30°	1545.7	1521.5	1465.9	1395.7	1361.9	1371.5	1403.0	1429.6	1441.7
32.5°	1436.8	1415.1	1364.2	1299.0	1269.9	1279.6	1306.2	1330.4	1340.1
35°	1323.1	1299.0	1255.5	1197.3	1178.0	1187.7	1211.8	1231.2	1236.1
37.5°	1194.9	1178.0	1146.6	1100.6	1086.1	1098.1	1117.5	1129.7	1134.4
40°	1076.4	1061.9	1035.2	1001.4	996.6	1006.3	1025.6	1032.9	1035.2
42.5°	960.3	948.2	931.3	907.1	907.1	916.8	933.7	938.5	941.0
45°	849.0	841.8	834.5	815.1	820.1	832.1	841.8	849.0	849.0
47.5°	752.2	754.7	745.0	730.5	735.3	747.5	754.7	761.9	761.9
50°	677.3	670.0	660.4	645.8	653.1	662.7	672.4	677.3	679.7
52.5°	590.2	587.8	580.6	563.5	568.4	573.2	582.9	590.2	592.6
55°	527.4	520.0	510.3	491.1	491.1	495.9	500.8	505.5	510.3
57.5°	466.8	459.6	445.1	423.3	420.9	420.9	418.5	423.3	430.5
60°	406.3	403.9	382.2	362.8	355.6	348.3	338.7	341.1	350.7
62.5°	353.1	348.3	329.0	304.8	290.2	278.2	266.1	263.6	273.3
65°	304.8	299.9	278.2	253.9	237.0	215.3	195.9	195.9	203.2
67.5°	261.3	251.6	232.2	205.6	183.8	157.2	137.8	142.7	145.2
70°	217.6	210.4	188.7	162.1	135.5	108.9	96.7	99.2	99.2
72.5°	179.0	169.3	147.5	120.9	94.3	70.1	65.4	62.9	62.9
75°	140.3	130.6	108.9	82.3	58.0	41.1	36.3	36.3	36.3
77.5°	101.6	94.3	75.0	50.8	31.4	19.4	16.9	14.5	14.5
80°	70.1	62.9	46.0	26.6	12.1	7.2	7.2	7.2	7.2
82.5°	41.1	33.8	21.8	12.1	4.8	2.5	2.5	2.5	2.5
85°	19.4	14.5	9.7	4.8	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)