

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: P582369

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582369
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC635D010-HM63040930-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3667.4 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

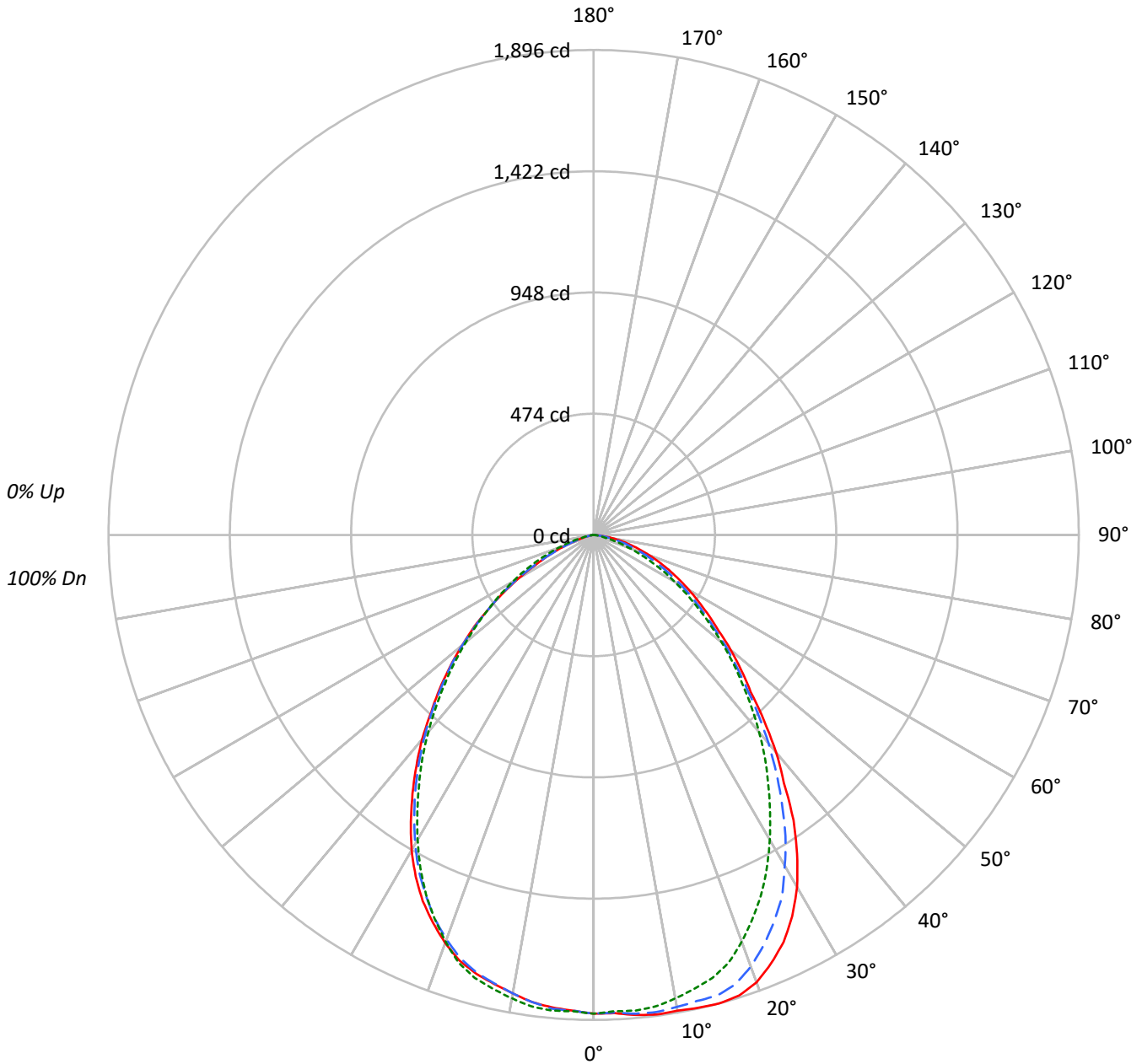
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77			
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59			
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	61	55	50	60	54	49	58	53	49	47			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	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°	102601	102601	102601
5°	103670	102724	102052
10°	105142	102414	101317
15°	107611	101766	100789
20°	108614	98738	99024
25°	106234	93768	95558
30°	100623	87108	90058
35°	91109	79612	82576
40°	79349	71971	74604
45°	67325	63712	65991
50°	59623	55648	57107
55°	52509	47597	47358
60°	47058	40074	36850
65°	42002	32144	26410
70°	36961	23193	16509
75°	31178	14043	9341
80°	24025	6188	3883
85°	13901	1572	1572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.7	4.8
10°-20°	510.6	13.9
20°-30°	738.1	20.1
30°-40°	776.6	21.2
40°-50°	652.9	17.8
50°-60°	458.2	12.5
60°-70°	252.1	6.9
70°-80°	89.5	2.4
80°-90°	11.7	0.3
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°	1426.3	38.9
0°-40°	2203.0	60.1
0°-60°	3314.1	90.4
0°-90°	3667.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3667.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1872	1872	1872	1872	1872	
5°	1884	1879	1867	1859	1854	180
15°	1896	1864	1793	1771	1776	535
25°	1756	1668	1550	1553	1580	803
35°	1361	1283	1190	1214	1234	844
45°	868	844	822	841	851	681
55°	549	520	498	498	496	495
65°	324	289	248	204	204	322
75°	147	118	66	44	44	158
85°	22	12	2	2	2	30
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°	1871.6	1871.6	1871.6	1871.6	1871.6	1871.6	1871.6	1871.6	1871.6
2.5°	1871.6	1871.6	1869.2	1869.2	1864.3	1864.3	1861.8	1861.8	1861.8
5°	1883.9	1883.9	1879.0	1871.6	1866.7	1859.4	1859.4	1856.9	1854.5
7.5°	1891.2	1888.8	1881.4	1871.6	1859.4	1847.1	1842.2	1844.7	1842.2
10°	1888.8	1883.9	1874.1	1854.5	1839.8	1822.5	1820.1	1817.6	1820.1
12.5°	1893.7	1886.3	1866.7	1842.2	1817.6	1798.0	1795.5	1795.5	1798.0
15°	1896.1	1888.8	1864.3	1827.5	1793.1	1773.5	1771.0	1773.5	1775.9
17.5°	1888.8	1879.0	1842.2	1793.1	1753.9	1734.3	1734.3	1739.2	1744.1
20°	1861.8	1847.1	1795.5	1736.7	1692.5	1677.8	1682.7	1692.5	1697.4
22.5°	1812.7	1795.5	1736.7	1670.4	1623.9	1611.6	1623.9	1636.1	1641.0
25°	1756.3	1736.7	1668.0	1599.4	1550.2	1535.5	1552.7	1572.3	1579.8
27.5°	1680.2	1658.2	1594.5	1515.9	1466.9	1459.6	1479.2	1501.2	1506.1
30°	1589.6	1564.9	1493.9	1420.2	1376.1	1373.7	1395.7	1415.3	1422.7
32.5°	1479.2	1457.1	1395.7	1322.1	1282.9	1282.9	1304.9	1322.1	1329.6
35°	1361.4	1336.9	1282.9	1221.6	1189.6	1192.1	1214.3	1226.5	1233.9
37.5°	1221.6	1214.3	1172.5	1121.0	1099.0	1103.9	1121.0	1130.8	1138.2
40°	1108.8	1089.2	1062.1	1020.4	1005.7	1010.6	1027.8	1037.6	1042.5
42.5°	986.1	973.9	951.8	922.3	912.5	919.8	934.5	941.9	939.4
45°	868.4	865.9	843.9	826.7	821.8	831.6	841.4	848.8	851.2
47.5°	782.5	772.7	753.1	740.8	735.9	745.7	755.5	760.4	760.4
50°	699.1	689.2	669.6	657.4	652.5	662.3	669.6	674.5	669.6
52.5°	615.7	605.9	588.8	574.0	571.6	576.5	578.9	581.4	586.3
55°	549.4	539.6	520.0	502.9	498.0	500.4	498.0	498.0	495.5
57.5°	485.7	475.9	456.3	436.6	429.2	426.8	419.4	417.0	414.5
60°	429.2	417.0	397.4	375.3	365.5	355.7	343.4	336.1	336.1
62.5°	375.3	363.1	341.0	321.4	306.6	289.4	269.8	260.0	260.0
65°	323.8	313.9	289.4	267.4	247.8	225.7	203.6	198.7	203.6
67.5°	274.7	264.9	240.4	218.3	193.8	166.8	147.2	147.2	152.1
70°	230.6	220.8	198.7	171.7	144.7	117.8	103.0	103.0	103.0
72.5°	188.8	179.0	154.5	130.0	103.0	76.1	68.7	71.2	68.7
75°	147.2	139.8	117.8	90.8	66.3	46.6	44.1	41.7	44.1
77.5°	110.4	103.0	83.4	58.8	36.8	27.0	24.5	24.5	24.5
80°	76.1	68.7	53.9	34.3	19.6	12.3	12.3	12.3	12.3
82.5°	46.6	39.2	29.4	17.2	7.4	7.4	7.4	7.4	7.4
85°	22.1	17.2	12.3	4.9	2.5	2.5	2.5	2.5	2.5
87.5°	4.9	4.9	2.5	2.5	0.0	2.5	2.5	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)