

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: P582375

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582375
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC635D010-HM63040930-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3108.1 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

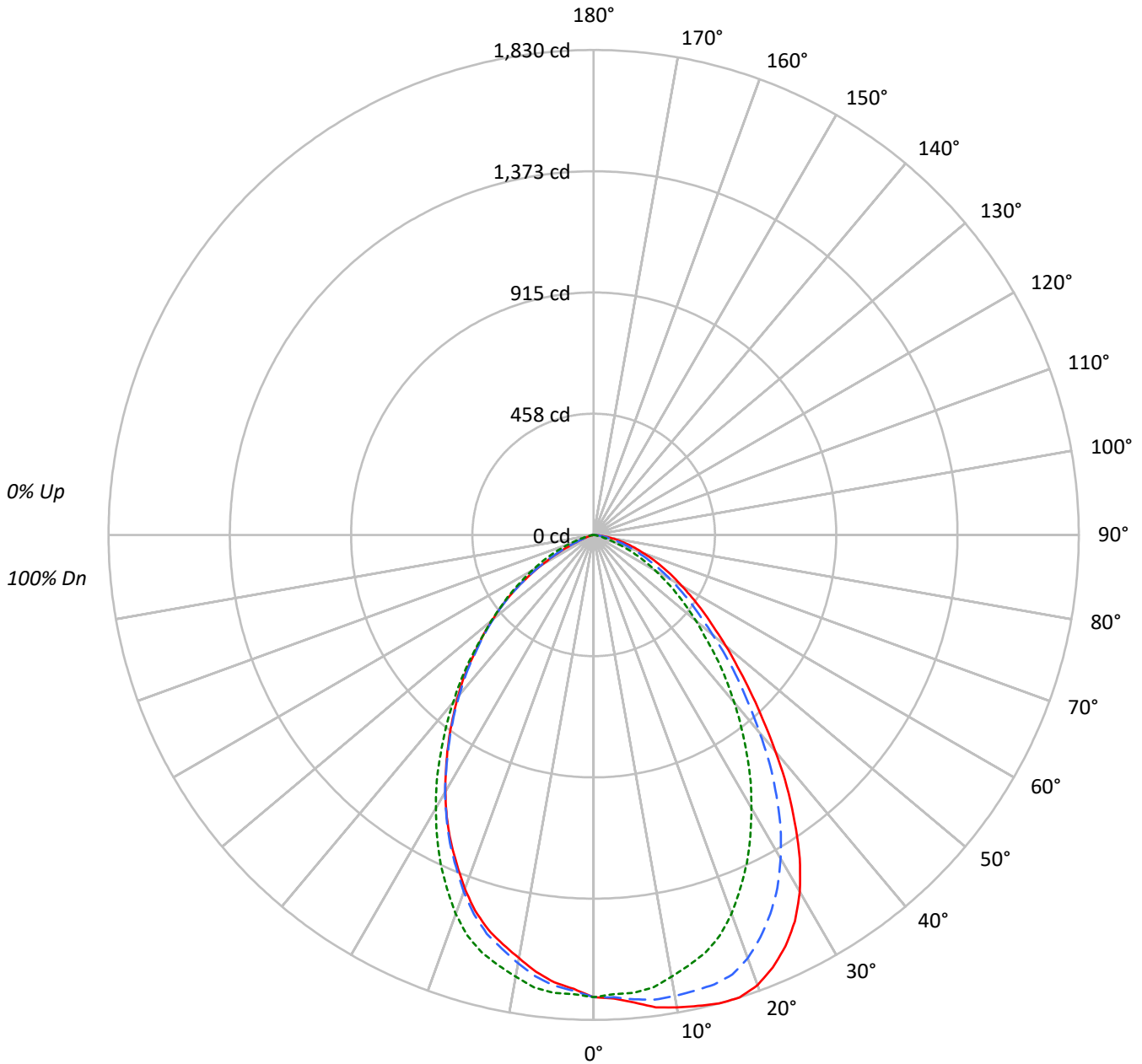
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89																			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78																			
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69																			
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61																			
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54																			
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49																			
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44																			
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40																			
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37																			
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	95612	95612	95612
5°	97468	95438	93281
10°	100777	94220	90257
15°	103860	92577	87435
20°	105470	88733	82864
25°	103566	82644	77158
30°	98452	75315	70808
35°	88486	67305	63865
40°	76365	58989	57057
45°	64666	50773	49447
50°	55435	42890	42472
55°	48065	36109	34704
60°	41959	29318	24746
65°	36904	22583	13685
70°	31848	14938	6684
75°	27027	7265	2605
80°	20931	3094	1547
85°	12328	1572	1572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.6	5.3
10°-20°	465.4	15.0
20°-30°	655.4	21.1
30°-40°	669.7	21.5
40°-50°	539.9	17.4
50°-60°	362.2	11.7
60°-70°	183.3	5.9
70°-80°	58.6	1.9
80°-90°	9.0	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°	1285.5	41.4
0°-40°	1955.1	62.9
0°-60°	2857.2	91.9
0°-90°	3108.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3108.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1744	1744	1744	1744	1744	
5°	1771	1759	1734	1707	1695	171
15°	1830	1756	1631	1558	1541	517
25°	1712	1577	1366	1283	1276	784
35°	1322	1202	1006	949	954	823
45°	834	768	655	633	638	649
55°	503	446	378	361	363	452
65°	284	236	174	115	106	284
75°	128	91	34	12	12	137
85°	20	10	2	2	2	26
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°	1744.1	1744.1	1744.1	1744.1	1744.1	1744.1	1744.1	1744.1	1744.1
2.5°	1751.4	1749.0	1746.5	1741.6	1734.3	1726.9	1722.0	1717.1	1714.7
5°	1771.2	1766.3	1758.9	1749.0	1734.3	1717.1	1707.3	1697.5	1695.1
7.5°	1798.1	1788.3	1768.7	1746.5	1722.0	1697.5	1680.4	1670.6	1663.2
10°	1810.4	1793.2	1766.3	1729.4	1692.6	1663.2	1641.2	1626.3	1621.4
12.5°	1820.2	1800.6	1761.4	1712.2	1663.2	1623.9	1599.4	1587.1	1582.2
15°	1830.0	1810.4	1756.3	1692.6	1631.2	1584.7	1557.7	1545.5	1540.6
17.5°	1830.0	1803.0	1739.2	1658.3	1584.7	1528.3	1501.2	1489.0	1486.5
20°	1807.9	1778.5	1700.0	1604.3	1521.0	1457.1	1432.6	1425.3	1420.4
22.5°	1766.3	1731.8	1643.6	1535.7	1444.9	1383.5	1356.5	1351.6	1346.7
25°	1712.2	1677.9	1577.3	1462.0	1366.3	1305.1	1283.0	1278.1	1275.6
27.5°	1643.6	1606.7	1501.2	1383.5	1280.5	1221.6	1202.0	1202.0	1199.6
30°	1555.3	1513.5	1410.6	1292.8	1189.8	1135.7	1121.0	1121.0	1118.6
32.5°	1447.3	1405.7	1312.4	1199.6	1101.4	1045.0	1032.8	1037.7	1035.2
35°	1322.2	1287.9	1202.0	1091.6	1005.7	954.3	949.4	954.3	954.3
37.5°	1197.1	1165.2	1091.6	995.9	915.0	868.4	868.4	875.7	873.3
40°	1067.1	1042.6	973.9	890.4	824.3	792.4	787.4	794.8	797.3
42.5°	944.5	924.8	865.9	797.3	738.4	706.5	713.9	718.8	721.2
45°	834.1	814.4	767.8	696.7	654.9	632.9	632.9	640.2	637.8
47.5°	735.9	721.2	674.6	605.9	569.1	559.3	564.2	569.1	569.1
50°	650.0	628.0	583.9	529.8	502.9	490.6	495.5	498.0	498.0
52.5°	569.1	554.4	510.2	461.2	436.7	429.3	429.3	431.8	431.8
55°	502.9	485.7	446.5	397.4	377.8	368.0	360.6	358.2	363.1
57.5°	439.1	424.4	387.6	341.0	318.9	309.1	294.3	289.4	294.3
60°	382.7	370.4	333.6	289.4	267.4	247.8	230.6	220.8	225.7
62.5°	333.6	318.9	282.1	245.3	220.8	198.7	171.7	157.0	164.3
65°	284.5	272.3	235.5	198.7	174.1	147.2	115.3	105.5	105.5
67.5°	240.4	228.1	193.8	161.9	132.5	100.6	71.2	68.7	71.2
70°	198.7	186.5	157.0	125.1	93.2	61.4	41.7	41.7	41.7
72.5°	164.3	149.6	122.7	90.8	58.8	31.9	22.1	24.5	24.5
75°	127.6	115.3	90.8	61.4	34.3	14.7	12.3	12.3	12.3
77.5°	95.7	85.9	63.8	39.2	17.2	4.9	4.9	4.9	4.9
80°	66.3	56.4	41.7	24.5	9.8	4.9	4.9	4.9	4.9
82.5°	39.2	34.3	24.5	12.3	4.9	2.5	2.5	2.5	2.5
85°	19.6	17.2	9.8	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)