

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: P582304

Luminaire Tested: **HC635D010-HM63040830-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582304
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC635D010-HM63040830-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3611.4 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

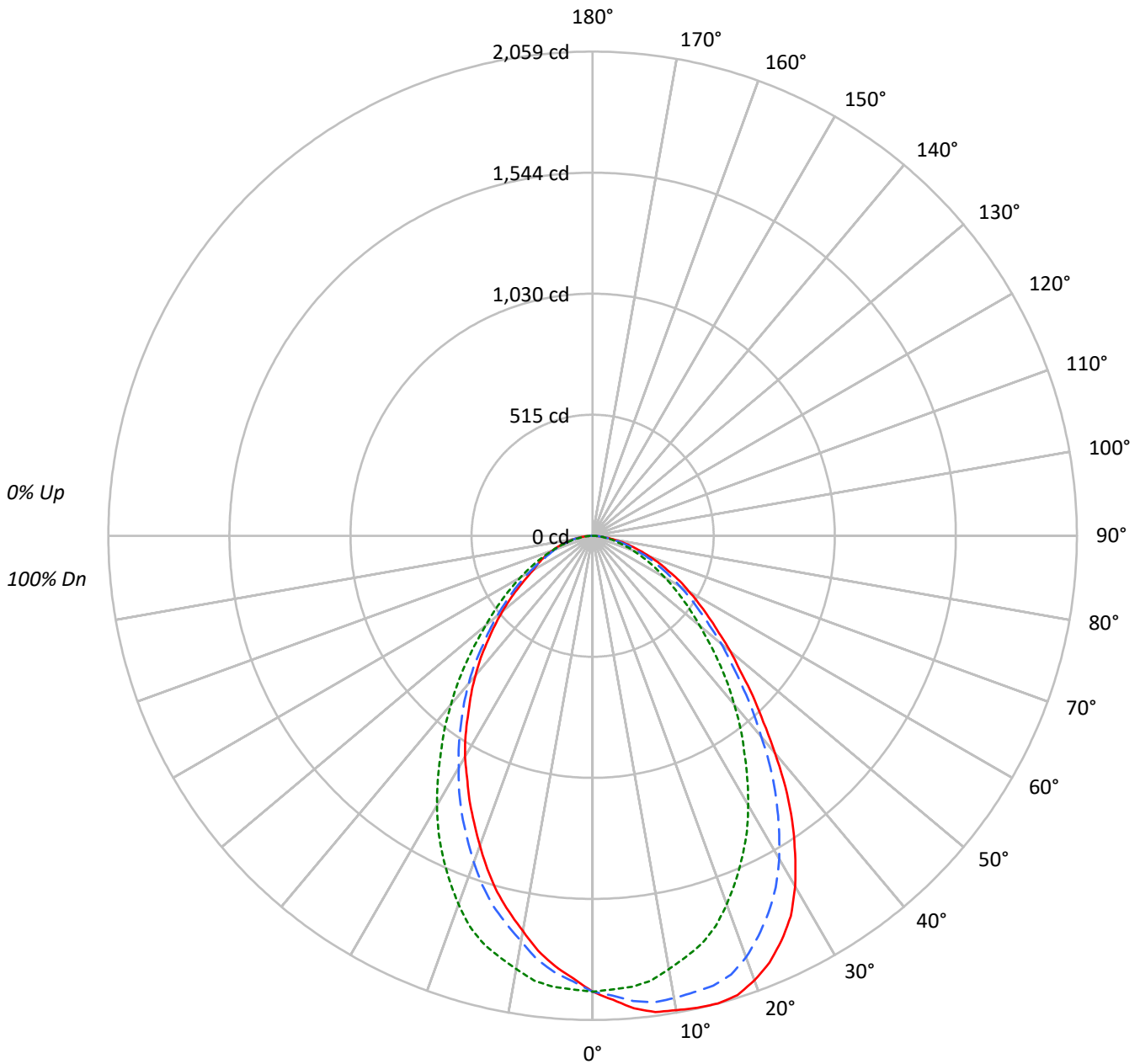
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87																			
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76																			
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66																			
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58																			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51																			
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	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	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	106280	106280	106280
5°	110995	105970	101089
10°	114020	104145	94994
15°	116845	101885	89002
20°	117365	97273	81744
25°	114902	91064	74974
30°	109010	83741	68713
35°	99013	75262	61643
40°	86269	67040	55461
45°	74651	58665	48757
50°	65200	50523	42728
55°	57613	44395	36663
60°	51783	38911	31752
65°	46373	33843	30807
70°	41417	28867	28867
75°	35923	24316	27090
80°	28855	20583	24719
85°	19687	18052	21386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.2	5.0
10°-20°	506.5	14.0
20°-30°	705.9	19.5
30°-40°	727.3	20.1
40°-50°	602.8	16.7
50°-60°	433.2	12.0
60°-70°	275.9	7.6
70°-80°	141.7	3.9
80°-90°	36.0	1.0
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°	1394.6	38.6
0°-40°	2121.9	58.8
0°-60°	3157.9	87.4
0°-90°	3611.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3611.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1939	1939	1939	1939	1939	
5°	2017	1986	1926	1863	1837	193
15°	2059	1980	1795	1631	1568	580
25°	1900	1769	1506	1312	1240	870
35°	1480	1359	1125	976	921	919
45°	963	895	757	660	629	745
55°	603	553	464	412	384	543
65°	358	318	261	227	238	358
75°	170	146	115	120	128	181
85°	31	29	29	31	34	40
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°	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7
2.5°	1975.3	1967.4	1957.1	1946.6	1930.9	1912.6	1897.0	1891.8	1883.9
5°	2017.0	2006.5	1985.8	1959.6	1925.7	1891.8	1863.1	1844.8	1837.0
7.5°	2043.1	2030.1	2001.4	1957.1	1907.5	1857.9	1816.1	1790.1	1779.6
10°	2048.3	2035.2	1996.2	1936.2	1870.9	1803.0	1750.9	1719.6	1706.5
12.5°	2056.1	2037.9	1988.3	1917.8	1834.4	1756.1	1690.9	1651.8	1638.7
15°	2058.8	2037.9	1980.5	1894.4	1795.2	1701.3	1630.9	1583.9	1568.2
17.5°	2048.3	2024.9	1957.1	1852.6	1740.5	1641.3	1557.8	1508.2	1487.3
20°	2011.8	1985.8	1907.5	1790.1	1667.4	1563.0	1476.8	1424.7	1401.2
22.5°	1964.9	1930.9	1842.2	1716.9	1589.1	1479.5	1393.4	1341.2	1317.7
25°	1899.6	1868.3	1769.2	1636.0	1505.5	1390.8	1312.5	1257.7	1239.5
27.5°	1823.9	1787.4	1685.6	1552.6	1419.5	1304.7	1229.0	1179.4	1155.9
30°	1722.1	1688.3	1586.5	1453.4	1322.9	1215.9	1137.7	1095.9	1085.5
32.5°	1602.2	1573.5	1474.3	1349.1	1223.8	1124.6	1059.4	1015.1	1004.6
35°	1479.5	1445.6	1359.4	1242.0	1124.6	1035.9	975.8	936.8	921.1
37.5°	1346.4	1315.1	1242.0	1137.7	1033.3	949.8	897.7	863.7	848.1
40°	1205.5	1182.1	1114.1	1030.7	936.8	863.7	819.4	790.6	775.0
42.5°	1075.0	1051.6	1004.6	926.4	848.1	782.8	743.6	717.6	704.5
45°	962.9	942.0	895.0	827.2	756.7	702.0	660.2	641.8	628.9
47.5°	850.6	840.2	798.5	735.8	670.6	623.6	594.9	574.0	563.7
50°	764.5	751.5	712.3	647.1	592.4	555.8	529.7	511.4	501.0
52.5°	675.8	662.7	626.2	571.5	527.1	493.2	467.0	451.4	441.0
55°	602.8	592.4	553.2	503.6	464.5	435.8	412.3	394.0	383.6
57.5°	535.0	524.4	487.9	441.0	407.0	380.9	360.1	344.4	331.4
60°	472.3	464.5	427.9	383.6	354.9	328.7	310.5	297.5	289.6
62.5°	417.6	401.8	370.5	331.4	305.3	284.4	266.2	258.4	263.5
65°	357.5	349.6	318.4	284.4	260.9	240.1	227.0	232.2	237.5
67.5°	307.9	297.5	271.3	240.1	219.2	203.5	195.7	206.1	208.8
70°	258.4	247.9	224.4	198.3	180.1	169.6	169.6	177.4	180.1
72.5°	211.3	203.5	182.6	161.7	148.7	140.9	146.1	151.4	153.9
75°	169.6	161.7	146.1	127.9	114.8	114.8	120.1	125.2	127.9
77.5°	130.5	125.2	109.6	96.5	91.4	91.4	96.5	99.2	101.8
80°	91.4	86.1	78.3	70.5	65.2	70.5	75.6	75.6	78.3
82.5°	60.0	57.4	52.2	46.9	46.9	49.6	52.2	54.8	54.8
85°	31.3	31.3	28.7	26.1	28.7	31.3	31.3	34.0	34.0
87.5°	10.4	10.4	10.4	10.4	13.1	13.1	13.1	13.1	13.1
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)