

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: P582285

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582285
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-HM63040827-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3081.8 lumens
Efficiency: N/A
Efficacy: 91.4 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

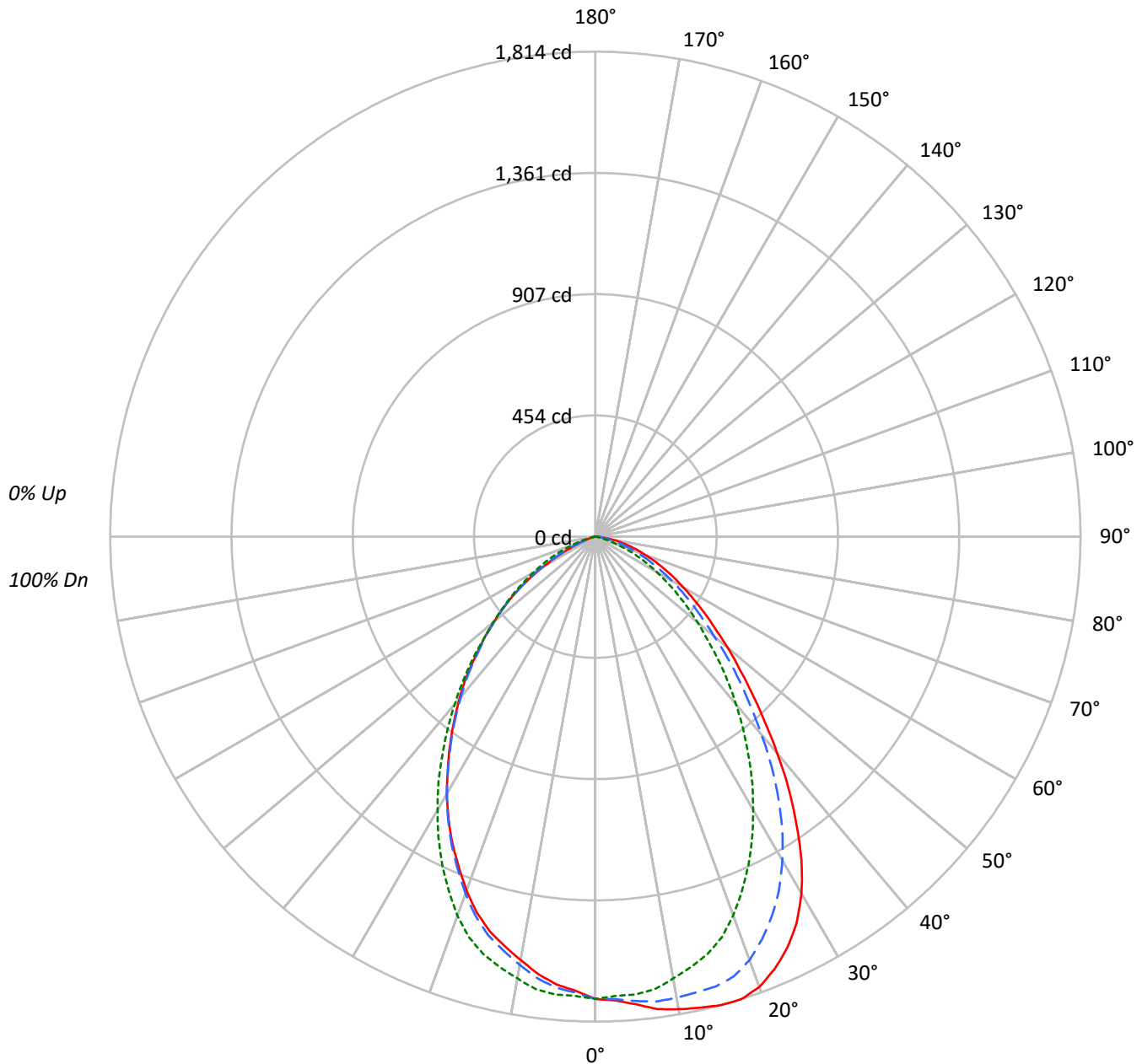
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
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°	94806	94806	94806
5°	96637	94629	92488
10°	99926	93424	89500
15°	102980	91800	86692
20°	104577	87974	82158
25°	102695	81948	76504
30°	97616	74670	70207
35°	87736	66736	63323
40°	75713	58488	56570
45°	64107	50346	49028
50°	54966	42532	42114
55°	47664	35803	34407
60°	41598	29066	24527
65°	36606	22402	13568
70°	31576	14810	6620
75°	26794	7223	2563
80°	20741	3062	1547
85°	12265	1572	1572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.2	5.3
10°-20°	461.5	15.0
20°-30°	649.9	21.1
30°-40°	664.0	21.5
40°-50°	535.4	17.4
50°-60°	359.1	11.7
60°-70°	181.7	5.9
70°-80°	58.1	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°	1274.6	41.4
0°-40°	1938.6	62.9
0°-60°	2833.0	91.9
0°-90°	3081.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3081.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1729	1729	1729	1729	1729	
5°	1756	1744	1720	1693	1681	169
15°	1814	1742	1618	1544	1528	512
25°	1698	1564	1355	1272	1265	777
35°	1311	1192	997	941	946	816
45°	827	761	649	628	632	643
55°	499	443	375	358	360	449
65°	282	234	173	114	105	282
75°	126	90	34	12	12	136
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°	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4
2.5°	1736.6	1734.2	1731.8	1726.9	1719.6	1712.3	1707.4	1702.7	1700.2
5°	1756.1	1751.2	1744.0	1734.2	1719.6	1702.7	1692.9	1683.2	1680.7
7.5°	1782.8	1773.1	1753.7	1731.8	1707.4	1683.2	1666.1	1656.4	1649.1
10°	1795.1	1778.0	1751.2	1714.8	1678.3	1649.1	1627.1	1612.6	1607.8
12.5°	1804.8	1785.3	1746.4	1697.8	1649.1	1610.2	1585.8	1573.7	1568.8
15°	1814.5	1795.1	1741.5	1678.3	1617.5	1571.2	1544.5	1532.4	1527.5
17.5°	1814.5	1787.7	1724.5	1644.2	1571.2	1515.3	1488.5	1476.4	1473.9
20°	1792.6	1763.5	1685.6	1590.7	1508.0	1444.7	1420.5	1413.1	1408.3
22.5°	1751.2	1717.2	1629.6	1522.6	1432.6	1371.8	1345.1	1340.2	1335.3
25°	1697.8	1663.7	1564.0	1449.6	1354.8	1294.0	1272.0	1267.2	1264.8
27.5°	1629.6	1593.2	1488.5	1371.8	1269.7	1211.2	1191.9	1191.9	1189.4
30°	1542.1	1500.8	1398.5	1281.8	1179.6	1126.2	1111.6	1111.6	1109.1
32.5°	1435.1	1393.7	1301.3	1189.4	1092.1	1036.2	1024.0	1028.8	1026.4
35°	1311.0	1276.9	1191.9	1082.4	997.2	946.2	941.3	946.2	946.2
37.5°	1187.0	1155.3	1082.4	987.5	907.2	861.0	861.0	868.4	865.9
40°	1058.0	1033.7	965.6	883.0	817.3	785.6	780.7	788.1	790.5
42.5°	936.4	916.9	858.6	790.5	732.1	700.6	707.8	712.7	715.1
45°	826.9	807.6	761.4	690.7	649.4	627.5	627.5	634.8	632.4
47.5°	729.7	715.1	668.9	600.8	564.2	554.6	559.5	564.2	564.2
50°	644.5	622.7	578.8	525.4	498.7	486.4	491.3	493.8	493.8
52.5°	564.2	549.7	505.9	457.2	433.0	425.6	425.6	428.1	428.1
55°	498.7	481.6	442.6	394.0	374.6	364.8	357.6	355.1	360.0
57.5°	435.4	420.8	384.3	338.1	316.1	306.5	291.9	287.0	291.9
60°	379.4	367.3	330.8	287.0	265.1	245.7	228.6	218.9	223.7
62.5°	330.8	316.1	279.7	243.2	218.9	197.0	170.3	155.7	162.9
65°	282.2	269.9	233.5	197.0	172.7	146.0	114.4	104.6	104.6
67.5°	238.4	226.2	192.2	160.6	131.3	99.8	70.5	68.2	70.5
70°	197.0	184.9	155.7	124.1	92.4	60.8	41.3	41.3	41.3
72.5°	162.9	148.3	121.6	90.0	58.4	31.6	21.9	24.3	24.3
75°	126.5	114.4	90.0	60.8	34.1	14.6	12.1	12.1	12.1
77.5°	94.9	85.1	63.3	38.9	17.0	4.9	4.9	4.9	4.9
80°	65.7	55.9	41.3	24.3	9.7	4.9	4.9	4.9	4.9
82.5°	38.9	34.1	24.3	12.1	4.9	2.5	2.5	2.5	2.5
85°	19.5	17.0	9.7	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)