

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: P582412

Luminaire Tested: **HC635D010-HM63040940-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582412
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-HM63040940-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3433.9 lumens
Efficiency: N/A
Efficacy: 101.9 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

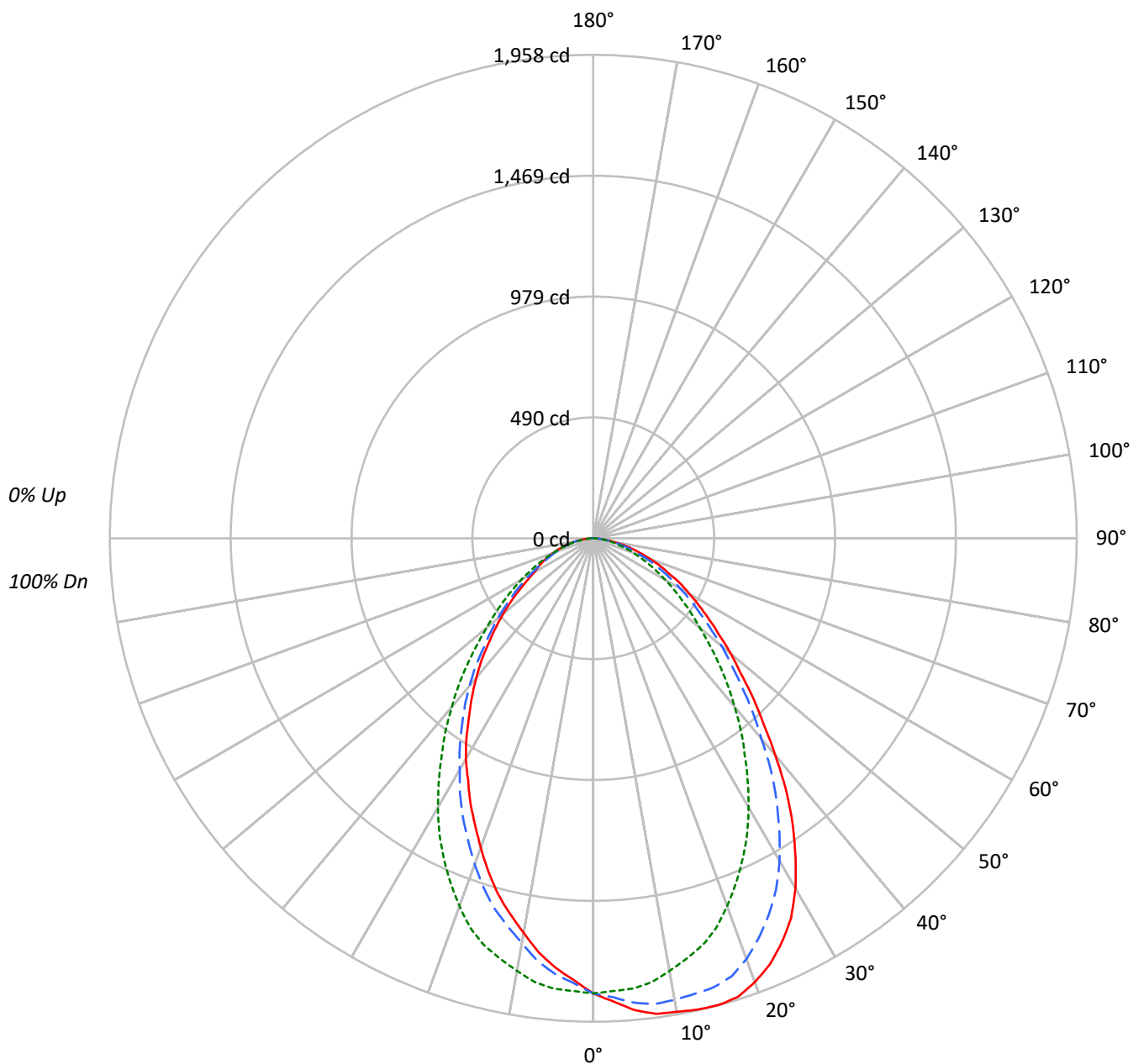
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	101055	101055	101055
5°	105536	100759	96115
10°	108415	99024	90323
15°	111096	96879	84626
20°	111590	92490	77730
25°	109252	86594	71290
30°	103655	79626	65333
35°	94141	71561	58611
40°	82025	63741	52727
45°	70976	55781	46361
50°	61994	48033	40630
55°	54775	42206	34857
60°	49239	36993	30195
65°	44090	32182	29290
70°	39382	27441	27441
75°	34165	23108	25756
80°	27402	19605	23519
85°	18744	17171	20254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.2	5.0
10°-20°	481.6	14.0
20°-30°	671.2	19.5
30°-40°	691.5	20.1
40°-50°	573.1	16.7
50°-60°	411.9	12.0
60°-70°	262.3	7.6
70°-80°	134.7	3.9
80°-90°	34.3	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°	1326.0	38.6
0°-40°	2017.6	58.8
0°-60°	3002.6	87.4
0°-90°	3433.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3433.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1843	1843	1843	1843	1843	
5°	1918	1888	1831	1772	1747	184
15°	1958	1883	1707	1551	1491	552
25°	1806	1682	1432	1248	1179	828
35°	1407	1293	1069	928	876	874
45°	916	851	720	628	598	709
55°	573	526	442	392	365	516
65°	340	303	248	216	226	340
75°	161	139	109	114	122	172
85°	30	27	27	30	32	38
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°	1843.4	1843.4	1843.4	1843.4	1843.4	1843.4	1843.4	1843.4	1843.4
2.5°	1878.2	1870.7	1860.8	1850.9	1835.9	1818.7	1803.7	1798.8	1791.3
5°	1917.8	1907.9	1888.1	1863.2	1831.0	1798.8	1771.5	1754.1	1746.6
7.5°	1942.7	1930.2	1902.9	1860.8	1813.6	1766.5	1726.8	1702.0	1692.0
10°	1947.6	1935.2	1898.0	1840.9	1778.9	1714.4	1664.7	1635.0	1622.6
12.5°	1955.1	1937.7	1890.5	1823.6	1744.2	1669.7	1607.7	1570.5	1558.1
15°	1957.5	1937.7	1883.1	1801.3	1707.0	1617.7	1550.7	1506.0	1491.1
17.5°	1947.6	1925.3	1860.8	1761.6	1654.8	1560.6	1481.2	1434.0	1414.2
20°	1912.8	1888.1	1813.6	1702.0	1585.4	1486.2	1404.3	1354.7	1332.4
22.5°	1868.3	1835.9	1751.7	1632.5	1510.9	1406.7	1324.9	1275.3	1252.9
25°	1806.2	1776.4	1682.1	1555.6	1431.6	1322.4	1248.0	1195.8	1178.6
27.5°	1734.3	1699.5	1602.8	1476.3	1349.6	1240.5	1168.5	1121.5	1099.1
30°	1637.5	1605.2	1508.5	1382.0	1257.9	1156.1	1081.7	1042.0	1032.1
32.5°	1523.4	1496.1	1401.8	1282.6	1163.6	1069.3	1007.4	965.1	955.2
35°	1406.7	1374.5	1292.6	1181.0	1069.3	984.9	927.9	890.7	875.8
37.5°	1280.2	1250.4	1181.0	1081.7	982.5	903.1	853.4	821.2	806.4
40°	1146.2	1123.9	1059.4	980.0	890.7	821.2	779.1	751.8	736.8
42.5°	1022.2	999.9	955.2	880.7	806.4	744.3	707.1	682.3	669.9
45°	915.5	895.7	851.0	786.4	719.5	667.4	627.7	610.3	598.0
47.5°	808.8	798.9	759.3	699.6	637.6	593.0	565.6	545.8	535.9
50°	726.9	714.6	677.3	615.2	563.2	528.4	503.7	486.3	476.4
52.5°	642.6	630.2	595.4	543.4	501.2	468.9	444.2	429.2	419.3
55°	573.1	563.2	526.0	478.8	441.6	414.3	392.0	374.6	364.7
57.5°	508.6	498.7	464.0	419.3	387.1	362.2	342.4	327.5	315.1
60°	449.1	441.6	406.9	364.7	337.4	312.6	295.3	282.9	275.4
62.5°	397.0	382.1	352.3	315.1	290.2	270.4	253.1	245.7	250.6
65°	339.9	332.5	302.7	270.4	248.1	228.3	215.9	220.8	225.8
67.5°	292.8	282.9	258.0	228.3	208.4	193.5	186.1	196.1	198.5
70°	245.7	235.7	213.3	188.6	171.2	161.3	161.3	168.7	171.2
72.5°	201.0	193.5	173.6	153.8	141.4	134.0	139.0	143.9	146.3
75°	161.3	153.8	139.0	121.6	109.1	109.1	114.1	119.0	121.6
77.5°	124.1	119.0	104.2	91.8	86.8	86.8	91.8	94.3	96.7
80°	86.8	81.9	74.5	67.0	62.1	67.0	72.0	72.0	74.5
82.5°	57.1	54.6	49.6	44.7	44.7	47.1	49.6	52.0	52.0
85°	29.8	29.8	27.3	24.9	27.3	29.8	29.8	32.2	32.2
87.5°	9.9	9.9	9.9	9.9	12.4	12.4	12.4	12.4	12.4
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)