

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: P582358

Luminaire Tested: **HC635D010-HM63040927-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582358
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-HM63040927-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2842.4 lumens
Efficiency: N/A
Efficacy: 84.3 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

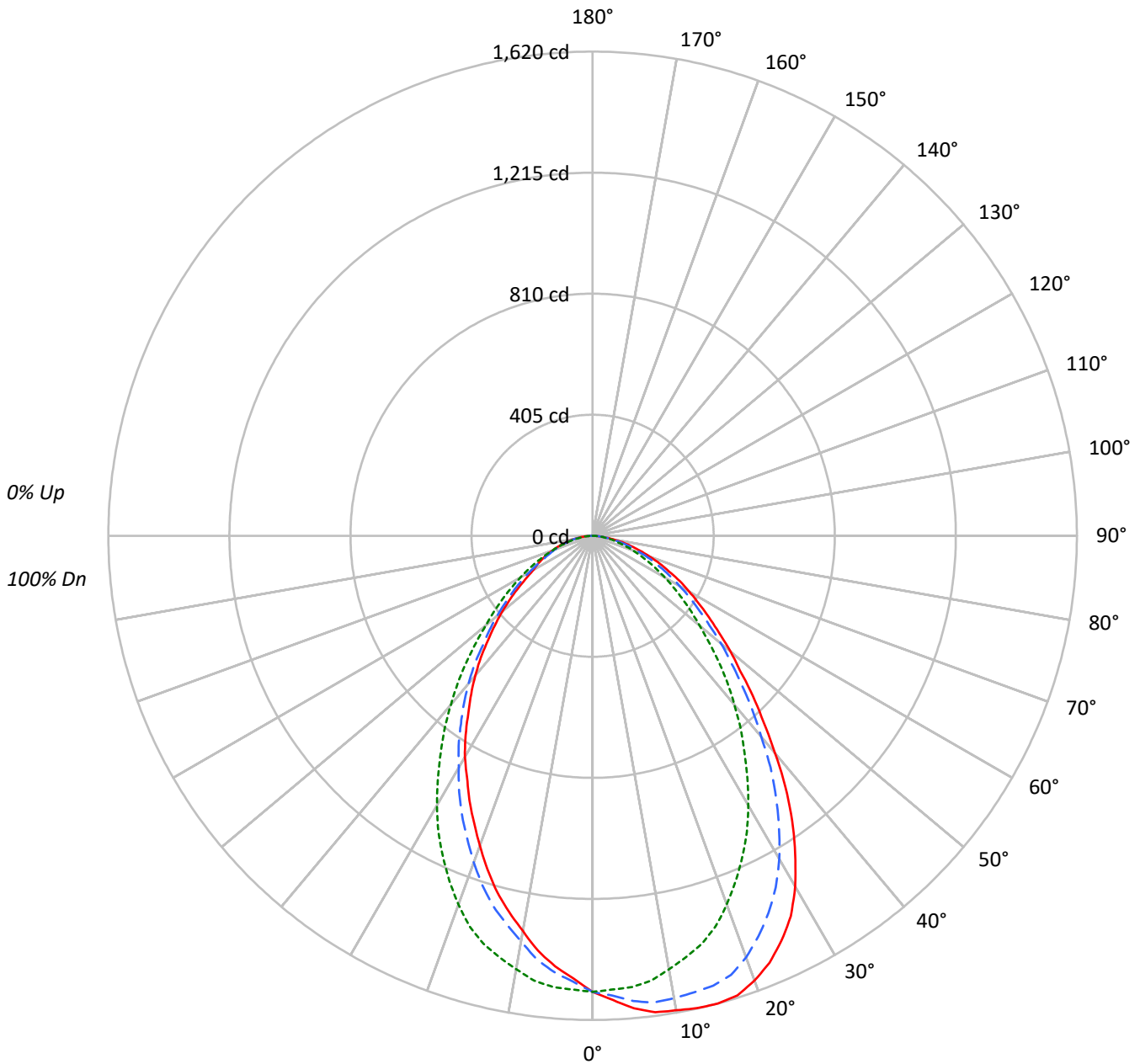
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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°	83650	83650	83650
5°	87359	83403	79562
10°	89739	81968	74765
15°	91964	80188	70046
20°	92373	76557	64336
25°	90429	71678	59005
30°	85804	65909	54084
35°	77925	59240	48513
40°	67899	52763	43653
45°	58750	46168	38368
50°	51316	39760	33628
55°	45341	34933	28854
60°	40753	30623	24987
65°	36502	26644	24231
70°	32586	22712	22712
75°	28276	19126	21308
80°	22699	16195	19447
85°	15473	14215	16794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.4	5.0
10°-20°	398.6	14.0
20°-30°	555.6	19.5
30°-40°	572.4	20.1
40°-50°	474.4	16.7
50°-60°	340.9	12.0
60°-70°	217.1	7.6
70°-80°	111.5	3.9
80°-90°	28.4	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°	1097.6	38.6
0°-40°	1670.0	58.8
0°-60°	2485.4	87.4
0°-90°	2842.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2842.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1526	1526	1526	1526	1526	
5°	1588	1563	1516	1466	1446	152
15°	1620	1559	1413	1284	1234	457
25°	1495	1392	1185	1033	976	685
35°	1164	1070	885	768	725	723
45°	758	704	596	520	495	587
55°	474	435	366	324	302	427
65°	281	251	205	179	187	282
75°	134	115	90	94	101	142
85°	25	23	23	25	27	32
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°	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9
2.5°	1554.7	1548.5	1540.2	1532.0	1519.7	1505.3	1493.1	1489.0	1482.8
5°	1587.5	1579.3	1562.8	1542.3	1515.6	1489.0	1466.3	1452.0	1445.8
7.5°	1608.0	1597.7	1575.2	1540.2	1501.2	1462.3	1429.3	1408.8	1400.6
10°	1612.1	1601.8	1571.0	1523.9	1472.5	1419.1	1378.0	1353.4	1343.1
12.5°	1618.3	1603.9	1564.9	1509.5	1443.7	1382.1	1330.7	1300.0	1289.8
15°	1620.4	1603.9	1558.8	1491.0	1412.9	1339.0	1283.6	1246.6	1234.2
17.5°	1612.1	1593.7	1540.2	1458.2	1369.8	1291.8	1226.1	1187.1	1170.6
20°	1583.4	1562.8	1501.2	1408.8	1312.3	1230.1	1162.3	1121.3	1102.8
22.5°	1546.4	1519.7	1449.9	1351.3	1250.7	1164.4	1096.6	1055.6	1037.1
25°	1495.0	1470.4	1392.3	1287.7	1185.0	1094.6	1033.0	989.8	975.5
27.5°	1435.5	1406.8	1326.6	1222.0	1117.2	1026.8	967.3	928.2	909.8
30°	1355.5	1328.7	1248.7	1143.9	1041.2	957.1	895.4	862.5	854.4
32.5°	1260.9	1238.4	1160.3	1061.7	963.1	885.2	833.8	798.9	790.6
35°	1164.4	1137.7	1070.0	977.6	885.2	815.3	768.1	737.3	724.9
37.5°	1059.8	1035.0	977.6	895.4	813.3	747.6	706.5	679.8	667.4
40°	948.8	930.3	876.9	811.2	737.3	679.8	644.9	622.2	610.0
42.5°	846.1	827.6	790.6	729.0	667.4	616.1	585.3	564.7	554.4
45°	757.8	741.4	704.4	651.1	595.5	552.5	519.5	505.2	494.9
47.5°	669.5	661.3	628.4	579.2	527.8	490.8	468.2	451.9	443.6
50°	601.7	591.4	560.6	509.3	466.2	437.4	416.9	402.5	394.3
52.5°	531.9	521.6	492.9	449.8	414.9	388.1	367.6	355.2	347.1
55°	474.4	466.2	435.4	396.3	365.5	343.0	324.4	310.1	301.9
57.5°	421.1	412.8	384.1	347.1	320.3	299.8	283.5	271.1	260.8
60°	371.7	365.5	336.8	301.9	279.3	258.7	244.4	234.1	227.9
62.5°	328.6	316.3	291.6	260.8	240.3	223.8	209.5	203.3	207.4
65°	281.4	275.2	250.6	223.8	205.4	188.9	178.7	182.8	186.8
67.5°	242.4	234.1	213.6	188.9	172.5	160.2	154.0	162.2	164.3
70°	203.3	195.1	176.6	156.0	141.7	133.5	133.5	139.7	141.7
72.5°	166.3	160.2	143.8	127.3	117.1	110.9	114.9	119.2	121.1
75°	133.5	127.3	114.9	100.6	90.3	90.3	94.5	98.6	100.6
77.5°	102.7	98.6	86.2	76.0	71.9	71.9	76.0	78.1	80.1
80°	71.9	67.8	61.6	55.4	51.3	55.4	59.5	59.5	61.6
82.5°	47.3	45.2	41.1	37.0	37.0	39.0	41.1	43.2	43.2
85°	24.6	24.6	22.6	20.5	22.6	24.6	24.6	26.7	26.7
87.5°	8.2	8.2	8.2	8.2	10.3	10.3	10.3	10.3	10.3
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)