

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: P582016

Luminaire Tested: **HC625D010-HM60525830-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582016
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: HC625D010-HM60525830-61WWW
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: 2470.6 lumens
Efficiency: N/A
Efficacy: 92.2 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

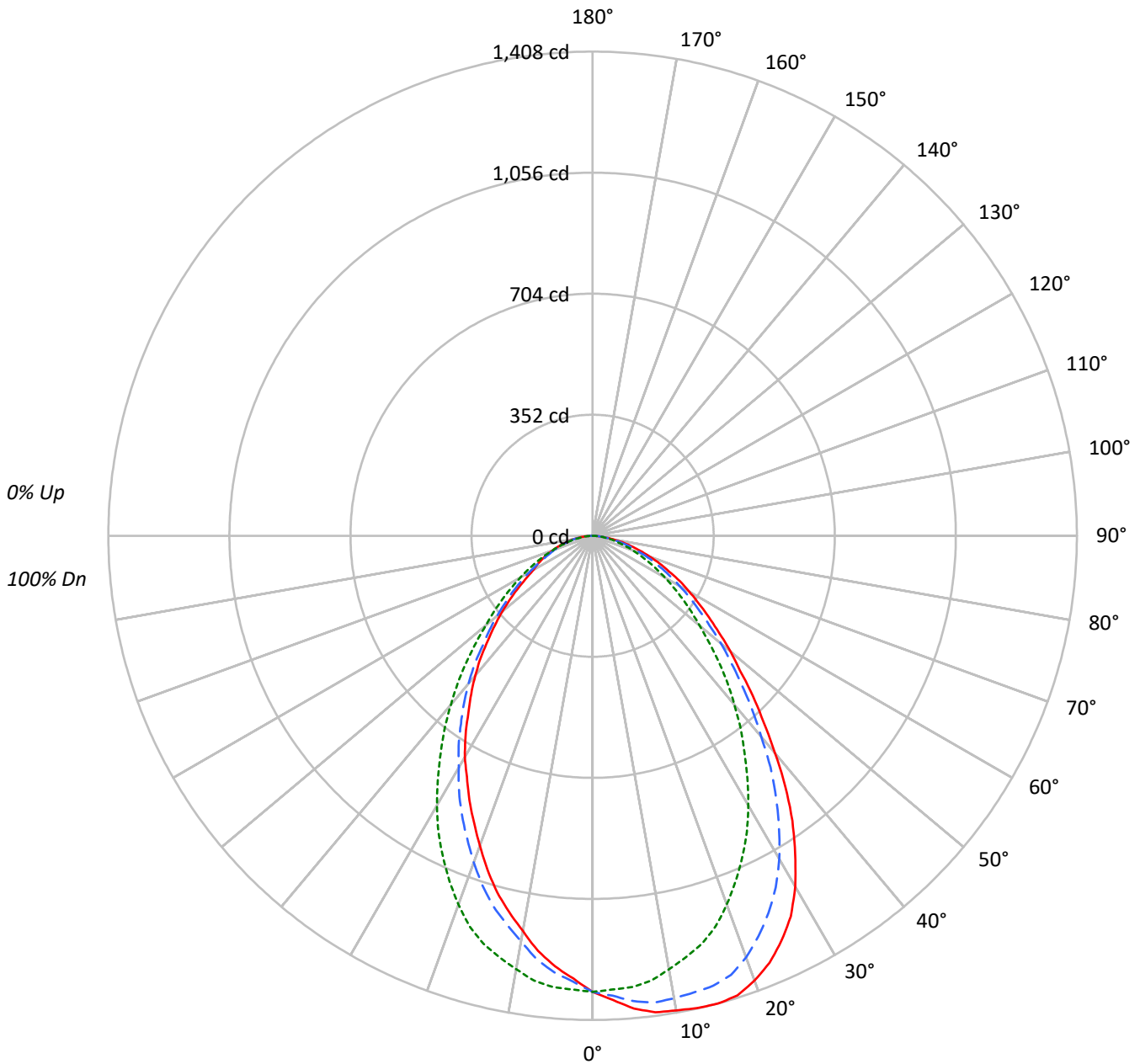
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	72708	72708	72708
5°	75935	72496	69161
10°	78010	71247	64984
15°	79932	69705	60886
20°	80291	66547	55917
25°	78603	62302	51287
30°	74581	57287	47014
35°	67740	51484	42168
40°	59018	45857	37935
45°	51067	40128	33352
50°	44604	34557	29227
55°	39416	30374	25079
60°	35425	26621	21720
65°	31728	23167	21066
70°	28322	19747	19747
75°	24570	16648	18533
80°	19731	14080	16890
85°	13460	12391	14593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	5.0
10°-20°	346.5	14.0
20°-30°	482.9	19.5
30°-40°	497.6	20.1
40°-50°	412.4	16.7
50°-60°	296.4	12.0
60°-70°	188.7	7.6
70°-80°	96.9	3.9
80°-90°	24.6	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°	954.1	38.6
0°-40°	1451.6	58.8
0°-60°	2160.3	87.4
0°-90°	2470.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2470.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1326	1326	1326	1326	1326	
5°	1380	1358	1317	1275	1257	132
15°	1408	1355	1228	1116	1073	397
25°	1300	1210	1030	898	848	595
35°	1012	930	769	668	630	629
45°	659	612	518	452	430	510
55°	412	378	318	282	262	371
65°	245	218	179	155	162	245
75°	116	100	79	82	88	124
85°	21	20	20	21	23	27
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°	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3
2.5°	1351.4	1346.0	1338.8	1331.7	1320.9	1308.5	1297.7	1294.2	1288.8
5°	1379.9	1372.8	1358.5	1340.6	1317.4	1294.2	1274.6	1262.0	1256.8
7.5°	1397.7	1388.8	1369.2	1338.8	1304.9	1271.0	1242.5	1224.6	1217.4
10°	1401.4	1392.3	1365.6	1324.5	1279.9	1233.5	1197.7	1176.3	1167.4
12.5°	1406.6	1394.2	1360.3	1312.0	1254.9	1201.4	1156.8	1130.0	1121.1
15°	1408.4	1394.2	1354.9	1296.0	1228.2	1163.9	1115.7	1083.6	1072.8
17.5°	1401.4	1385.2	1338.8	1267.4	1190.6	1122.8	1065.7	1031.7	1017.6
20°	1376.3	1358.5	1304.9	1224.6	1140.7	1069.3	1010.4	974.7	958.5
22.5°	1344.2	1320.9	1260.3	1174.6	1087.1	1012.2	953.3	917.6	901.4
25°	1299.5	1278.1	1210.3	1119.3	1030.0	951.4	897.9	860.4	847.9
27.5°	1247.7	1222.8	1153.1	1062.2	971.1	892.5	840.8	806.8	790.8
30°	1178.2	1154.9	1085.3	994.3	905.0	831.9	778.2	749.8	742.7
32.5°	1096.0	1076.5	1008.5	922.8	837.3	769.3	724.7	694.4	687.3
35°	1012.2	989.0	930.0	849.7	769.3	708.7	667.6	640.8	630.1
37.5°	921.1	899.7	849.7	778.2	706.9	649.8	614.1	590.9	580.1
40°	824.7	808.7	762.2	705.1	640.8	590.9	560.5	540.9	530.1
42.5°	735.5	719.3	687.3	633.8	580.1	535.5	508.7	490.9	482.0
45°	658.7	644.4	612.3	565.9	517.6	480.1	451.6	439.2	430.2
47.5°	581.9	574.8	546.2	503.5	458.7	426.6	407.0	392.7	385.5
50°	523.0	514.1	487.3	442.7	405.2	380.3	362.4	349.8	342.7
52.5°	462.4	453.5	428.4	390.9	360.6	337.4	319.5	308.9	301.7
55°	412.4	405.2	378.4	344.6	317.8	298.1	282.1	269.5	262.4
57.5°	366.0	358.9	333.8	301.7	278.4	260.6	246.3	235.7	226.7
60°	323.1	317.8	292.7	262.4	242.8	224.9	212.4	203.5	198.1
62.5°	285.6	274.9	253.5	226.7	208.9	194.6	182.1	176.7	180.3
65°	244.6	239.2	217.8	194.6	178.6	164.3	155.2	158.9	162.4
67.5°	210.6	203.5	185.7	164.3	150.0	139.2	133.8	141.0	142.8
70°	176.7	169.5	153.5	135.7	123.2	116.0	116.0	121.4	123.2
72.5°	144.6	139.2	124.9	110.6	101.7	96.4	100.0	103.5	105.4
75°	116.0	110.6	100.0	87.5	78.6	78.6	82.1	85.7	87.5
77.5°	89.2	85.7	74.9	66.0	62.5	62.5	66.0	67.8	69.7
80°	62.5	58.9	53.5	48.2	44.6	48.2	51.7	51.7	53.5
82.5°	41.1	39.2	35.7	32.1	32.1	34.0	35.7	37.5	37.5
85°	21.4	21.4	19.7	17.8	19.7	21.4	21.4	23.2	23.2
87.5°	7.1	7.1	7.1	7.1	8.9	8.9	8.9	8.9	8.9
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)