

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: P582015

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582015
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: HC625D010-HM60525830-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2261.7 lumens
Efficiency: N/A
Efficacy: 84.4 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

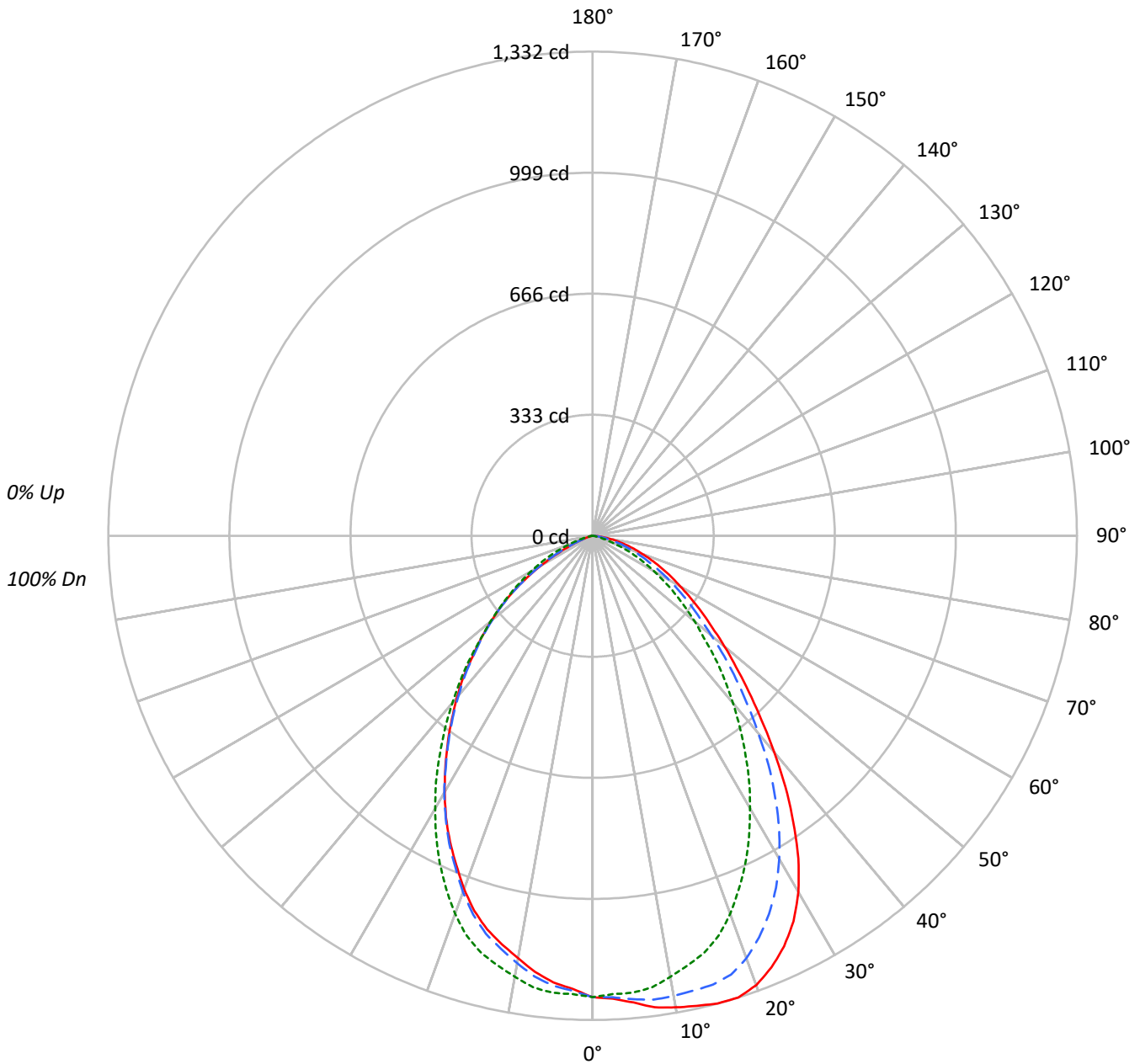
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P582015

CATALOG NUMBER: HC625D010-HM60525830-61WWBB

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	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	67	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°	69578	69578	69578
5°	70922	69447	67879
10°	73334	68564	65686
15°	75579	67373	63627
20°	76750	64569	60299
25°	75367	60143	56144
30°	71638	54806	51521
35°	64393	48981	46471
40°	55568	42923	41513
45°	47059	36950	35980
50°	40340	31214	30907
55°	34981	26274	25261
60°	30524	21336	18014
65°	26864	16448	9962
70°	23177	10867	4857
75°	19656	5274	1885
80°	15217	2241	1105
85°	8995	1132	1132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.8	5.3
10°-20°	338.7	15.0
20°-30°	477.0	21.1
30°-40°	487.3	21.5
40°-50°	392.9	17.4
50°-60°	263.5	11.7
60°-70°	133.4	5.9
70°-80°	42.6	1.9
80°-90°	6.6	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°	935.4	41.4
0°-40°	1422.8	62.9
0°-60°	2079.2	91.9
0°-90°	2261.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2261.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1269	1269	1269	1269	1269	
5°	1289	1280	1262	1242	1234	124
15°	1332	1278	1187	1134	1121	376
25°	1246	1148	994	934	928	570
35°	962	875	732	691	694	599
45°	607	559	477	461	464	472
55°	366	325	275	262	264	329
65°	207	171	127	84	77	207
75°	93	66	25	9	9	100
85°	14	7	2	2	2	19
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°	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2
2.5°	1274.6	1272.8	1271.0	1267.4	1262.0	1256.8	1253.1	1249.6	1247.7
5°	1288.8	1285.3	1279.9	1272.8	1262.0	1249.6	1242.5	1235.3	1233.5
7.5°	1308.5	1301.4	1287.1	1271.0	1253.1	1235.3	1222.8	1215.7	1210.3
10°	1317.4	1304.9	1285.3	1258.5	1231.7	1210.3	1194.2	1183.6	1180.0
12.5°	1324.5	1310.3	1281.7	1246.0	1210.3	1181.7	1163.9	1155.0	1151.4
15°	1331.7	1317.4	1278.2	1231.7	1187.1	1153.1	1133.6	1124.6	1121.1
17.5°	1331.7	1312.0	1265.7	1206.8	1153.1	1112.2	1092.5	1083.6	1081.7
20°	1315.6	1294.2	1237.1	1167.4	1106.8	1060.4	1042.5	1037.1	1033.6
22.5°	1285.3	1260.3	1196.0	1117.4	1051.4	1006.8	987.1	983.6	980.0
25°	1246.0	1221.0	1147.9	1063.9	994.3	949.6	933.6	930.1	928.2
27.5°	1196.0	1169.3	1092.5	1006.8	931.9	889.0	874.7	874.7	873.0
30°	1131.7	1101.4	1026.5	940.8	865.8	826.5	815.8	815.8	813.9
32.5°	1053.3	1022.8	955.0	873.0	801.5	760.4	751.5	755.1	753.3
35°	962.2	937.2	874.7	794.4	731.9	694.4	690.8	694.4	694.4
37.5°	871.1	847.9	794.4	724.7	665.8	631.9	631.9	637.3	635.5
40°	776.5	758.7	708.7	648.1	599.8	576.6	573.0	578.4	580.1
42.5°	687.3	673.0	630.1	580.1	537.3	514.1	519.5	523.0	524.9
45°	607.0	592.7	558.7	507.0	476.6	460.6	460.6	465.9	464.1
47.5°	535.5	524.9	490.9	440.9	414.1	407.0	410.6	414.1	414.1
50°	473.0	457.0	424.9	385.5	366.0	357.0	360.6	362.4	362.4
52.5°	414.1	403.5	371.3	335.6	317.8	312.4	312.4	314.1	314.1
55°	366.0	353.5	324.9	289.2	274.9	267.8	262.4	260.6	264.3
57.5°	319.5	308.9	282.1	248.1	232.1	224.9	214.3	210.6	214.3
60°	278.4	269.5	242.8	210.6	194.6	180.3	167.8	160.6	164.3
62.5°	242.8	232.1	205.2	178.6	160.6	144.6	124.9	114.3	119.7
65°	207.1	198.1	171.4	144.6	126.8	107.1	84.0	76.8	76.8
67.5°	174.9	166.0	141.0	117.8	96.4	73.2	51.7	50.0	51.7
70°	144.6	135.7	114.3	91.1	67.8	44.6	30.3	30.3	30.3
72.5°	119.7	108.9	89.2	66.0	42.9	23.2	16.0	17.8	17.8
75°	92.8	84.0	66.0	44.6	24.9	10.7	8.9	8.9	8.9
77.5°	69.7	62.5	46.4	28.6	12.5	3.5	3.5	3.5	3.5
80°	48.2	41.1	30.3	17.8	7.1	3.5	3.5	3.5	3.5
82.5°	28.6	24.9	17.8	8.9	3.5	1.8	1.8	1.8	1.8
85°	14.3	12.5	7.1	3.5	1.8	1.8	1.8	1.8	1.8
87.5°	3.5	3.5	1.8	1.8	0.0	1.8	1.8	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)