

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: P582051

Luminaire Tested: **HC625D010-HM60525840-61WWBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582051  
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-HM60525840-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2459.6 lumens  
Efficiency: N/A  
Efficacy: 91.8 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

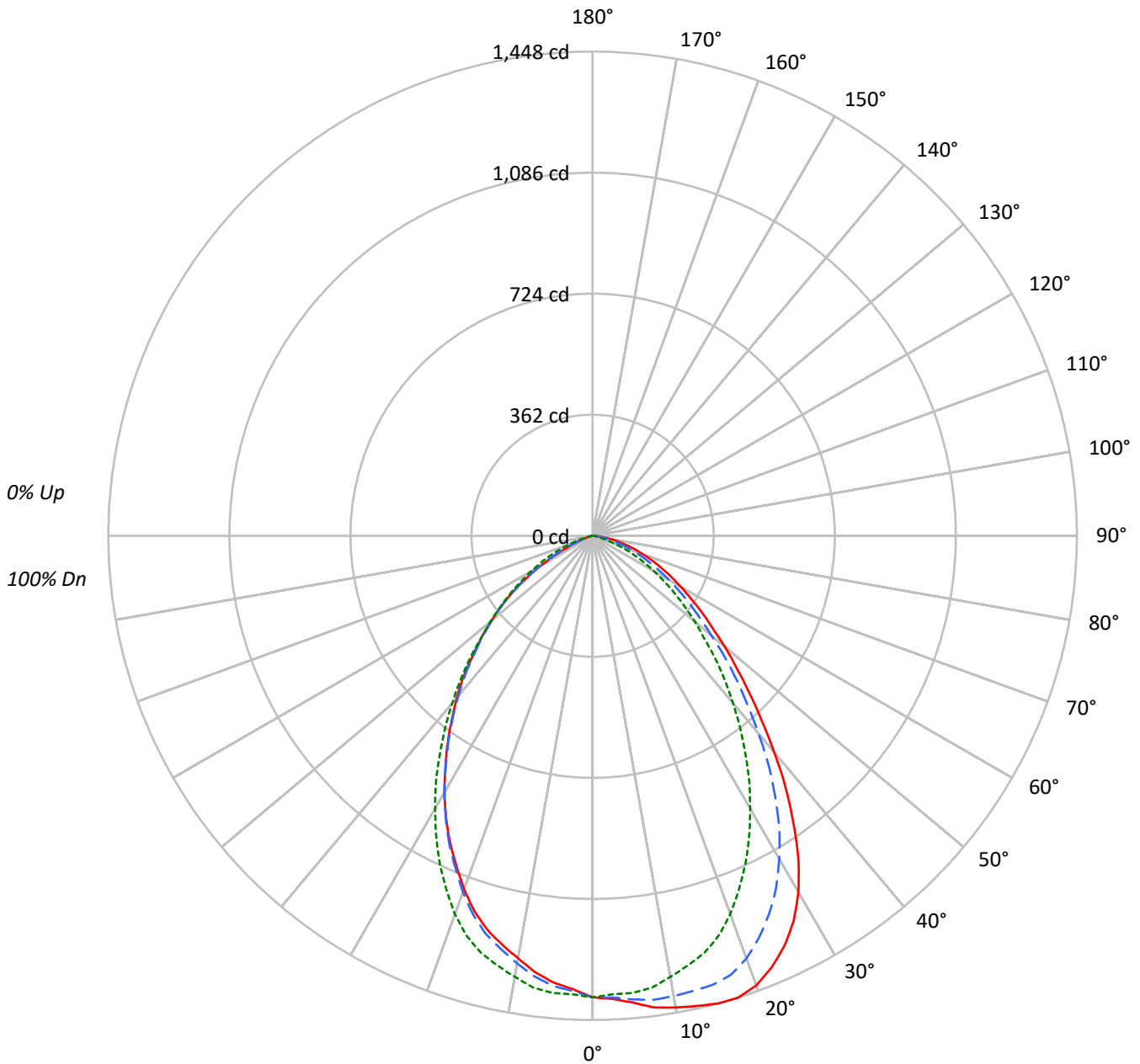
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	75663	75663	75663
5°	77129	75523	73811
10°	79752	74564	71430
15°	82191	73269	69183
20°	83465	70216	65567
25°	81960	65399	61056
30°	77904	59598	56034
35°	70028	53264	50540
40°	60428	46680	45149
45°	51176	40190	39128
50°	43879	33943	33611
55°	38039	28577	27459
60°	33210	23200	19582
65°	29212	17875	10818
70°	25213	11829	5289
75°	21393	5761	2033
80°	16543	2462	1231
85°	9749	1195	1195



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.2	5.3
10°-20°	368.3	15.0
20°-30°	518.7	21.1
30°-40°	529.9	21.5
40°-50°	427.3	17.4
50°-60°	286.6	11.7
60°-70°	145.0	5.9
70°-80°	46.3	1.9
80°-90°	7.1	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°	1017.3	41.4
0°-40°	1547.2	62.9
0°-60°	2261.1	91.9
0°-90°	2459.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2459.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1380	1380	1380	1380	1380	
5°	1402	1392	1372	1351	1341	135
15°	1448	1390	1291	1233	1219	409
25°	1355	1248	1081	1015	1009	620
35°	1046	951	796	751	755	651
45°	660	608	518	501	505	513
55°	398	353	299	285	287	358
65°	225	186	138	91	83	225
75°	101	72	27	10	10	108
85°	16	8	2	2	2	21
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°	1380.2	1380.2	1380.2	1380.2	1380.2	1380.2	1380.2	1380.2	1380.2
2.5°	1386.1	1384.1	1382.2	1378.3	1372.4	1366.6	1362.8	1358.9	1356.9
5°	1401.6	1397.7	1391.8	1384.1	1372.4	1358.9	1351.1	1343.3	1341.3
7.5°	1422.9	1415.1	1399.6	1382.2	1362.8	1343.3	1329.8	1322.0	1316.2
10°	1432.7	1419.0	1397.7	1368.5	1339.5	1316.2	1298.7	1287.1	1283.2
12.5°	1440.4	1424.9	1393.8	1355.0	1316.2	1285.1	1265.7	1256.0	1252.1
15°	1448.2	1432.7	1390.0	1339.5	1291.0	1254.0	1232.7	1222.9	1219.0
17.5°	1448.2	1426.8	1376.3	1312.3	1254.0	1209.4	1188.1	1178.3	1176.4
20°	1430.7	1407.4	1345.2	1269.5	1203.6	1153.1	1133.7	1127.8	1123.9
22.5°	1397.7	1370.5	1300.6	1215.2	1143.4	1094.9	1073.4	1069.7	1065.8
25°	1355.0	1327.8	1248.2	1157.0	1081.2	1032.7	1015.3	1011.4	1009.4
27.5°	1300.6	1271.5	1188.1	1094.9	1013.3	966.7	951.2	951.2	949.3
30°	1230.7	1197.7	1116.2	1023.1	941.5	898.8	887.1	887.1	885.2
32.5°	1145.4	1112.3	1038.6	949.3	871.6	827.0	817.2	821.1	819.2
35°	1046.4	1019.2	951.2	863.8	795.9	755.2	751.3	755.2	755.2
37.5°	947.3	922.1	863.8	788.1	724.1	687.1	687.1	693.0	691.0
40°	844.4	825.0	770.7	704.7	652.3	627.0	623.1	629.0	630.9
42.5°	747.4	731.9	685.3	630.9	584.3	559.1	564.9	568.7	570.7
45°	660.1	644.5	607.6	551.3	518.4	500.8	500.8	506.7	504.7
47.5°	582.4	570.7	533.9	479.5	450.3	442.6	446.4	450.3	450.3
50°	514.5	496.9	462.0	419.3	398.0	388.3	392.2	394.1	394.1
52.5°	450.3	438.7	403.7	365.0	345.6	339.7	339.7	341.7	341.7
55°	398.0	384.4	353.3	314.5	299.0	291.2	285.3	283.4	287.3
57.5°	347.5	335.8	306.7	269.8	252.4	244.6	232.9	229.0	232.9
60°	302.9	293.1	264.0	229.0	211.6	196.1	182.4	174.7	178.6
62.5°	264.0	252.4	223.3	194.1	174.7	157.3	135.8	124.3	130.1
65°	225.2	215.5	186.3	157.3	137.8	116.5	91.2	83.4	83.4
67.5°	190.2	180.6	153.4	128.2	104.9	79.6	56.3	54.4	56.3
70°	157.3	147.5	124.3	99.0	73.8	48.5	33.0	33.0	33.0
72.5°	130.1	118.4	97.1	71.8	46.6	25.2	17.4	19.4	19.4
75°	101.0	91.2	71.8	48.5	27.2	11.7	9.6	9.6	9.6
77.5°	75.7	67.9	50.5	31.1	13.5	3.9	3.9	3.9	3.9
80°	52.4	44.6	33.0	19.4	7.8	3.9	3.9	3.9	3.9
82.5°	31.1	27.2	19.4	9.6	3.9	1.9	1.9	1.9	1.9
85°	15.5	13.5	7.8	3.9	1.9	1.9	1.9	1.9	1.9
87.5°	3.9	3.9	1.9	1.9	0.0	1.9	1.9	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)