

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: P581998

Luminaire Tested: **HC625D010-HM60525827-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581998  
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-HM60525827-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2297.2 lumens  
Efficiency: N/A  
Efficacy: 85.7 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

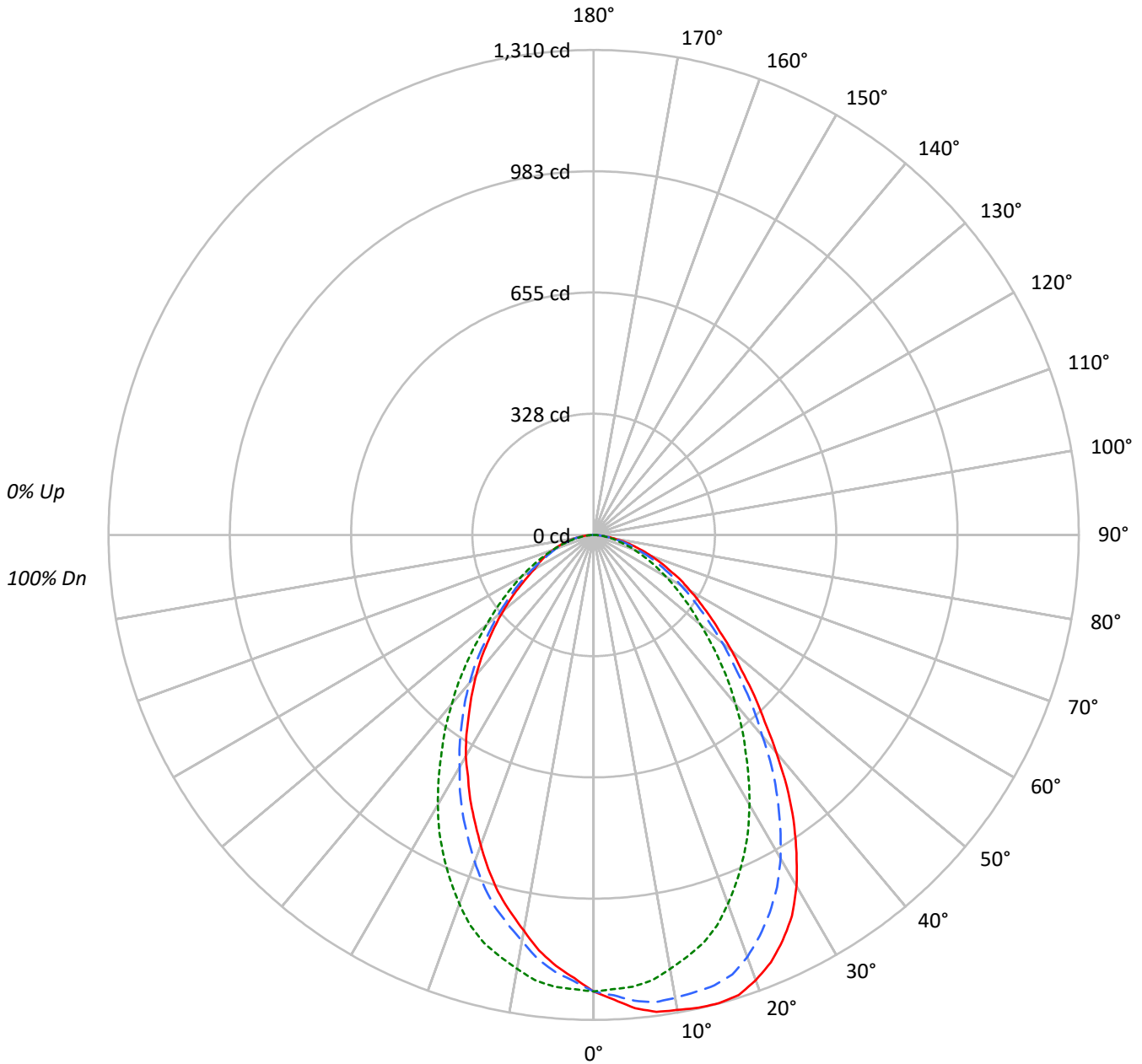
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	67604	67604	67604
5°	70608	67406	64302
10°	72527	66248	60425
15°	74319	64813	56612
20°	74656	61868	51997
25°	73087	57929	47688
30°	69346	53268	43709
35°	62981	47870	39210
40°	54874	42637	35273
45°	47486	37314	31011
50°	41474	32135	27172
55°	36644	28243	23321
60°	32947	24757	20196
65°	29497	21533	19587
70°	26335	18352	18352
75°	22854	15462	17220
80°	18342	13101	15690
85°	12517	11511	13586



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.9	5.0
10°-20°	322.2	14.0
20°-30°	449.0	19.5
30°-40°	462.6	20.1
40°-50°	383.4	16.7
50°-60°	275.6	12.0
60°-70°	175.5	7.6
70°-80°	90.1	3.9
80°-90°	22.9	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°	887.1	38.6
0°-40°	1349.7	58.8
0°-60°	2008.7	87.4
0°-90°	2297.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2297.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1233	1233	1233	1233	1233	
5°	1283	1263	1225	1185	1168	123
15°	1310	1260	1142	1037	998	369
25°	1208	1125	958	835	788	554
35°	941	865	715	621	586	585
45°	612	569	481	420	400	474
55°	383	352	296	262	244	345
65°	227	202	166	144	151	228
75°	108	93	73	76	81	115
85°	20	18	18	20	22	25
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°	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2
2.5°	1256.5	1251.5	1244.9	1238.2	1228.2	1216.7	1206.6	1203.4	1198.4
5°	1283.1	1276.4	1263.1	1246.5	1224.9	1203.4	1185.1	1173.4	1168.5
7.5°	1299.6	1291.3	1273.0	1244.9	1213.3	1181.7	1155.3	1138.6	1132.0
10°	1302.9	1294.6	1269.8	1231.6	1190.1	1146.9	1113.7	1093.7	1085.5
12.5°	1307.9	1296.2	1264.8	1219.9	1166.8	1117.0	1075.6	1050.6	1042.4
15°	1309.5	1296.2	1259.8	1205.0	1142.0	1082.2	1037.4	1007.5	997.5
17.5°	1302.9	1288.0	1244.9	1178.4	1107.0	1044.0	990.9	959.3	946.0
20°	1279.7	1263.1	1213.3	1138.6	1060.5	994.3	939.4	906.3	891.3
22.5°	1249.9	1228.2	1171.8	1092.1	1010.8	941.1	886.4	853.2	838.1
25°	1208.3	1188.3	1125.3	1040.7	957.7	884.6	834.9	800.0	788.4
27.5°	1160.2	1137.0	1072.2	987.6	902.9	829.9	781.7	750.2	735.3
30°	1095.5	1073.8	1009.2	924.5	841.5	773.5	723.6	697.2	690.5
32.5°	1019.1	1000.9	937.7	858.1	778.5	715.3	673.9	645.7	639.0
35°	941.1	919.6	864.7	790.0	715.3	659.0	620.7	595.8	585.9
37.5°	856.4	836.5	790.0	723.6	657.3	604.2	571.0	549.4	539.4
40°	766.8	751.9	708.7	655.6	595.8	549.4	521.1	503.0	492.9
42.5°	683.9	668.9	639.0	589.2	539.4	497.9	473.0	456.5	448.2
45°	612.5	599.2	569.4	526.1	481.3	446.4	419.9	408.4	400.0
47.5°	541.0	534.4	507.8	468.1	426.5	396.7	378.4	365.1	358.5
50°	486.3	478.0	453.1	411.6	376.8	353.5	336.9	325.3	318.6
52.5°	429.9	421.6	398.3	363.5	335.3	313.8	297.1	287.2	280.5
55°	383.4	376.8	351.8	320.4	295.5	277.2	262.3	250.6	244.0
57.5°	340.3	333.7	310.4	280.5	258.9	242.3	229.0	219.1	210.8
60°	300.5	295.5	272.2	244.0	225.8	209.1	197.5	189.2	184.2
62.5°	265.5	255.6	235.7	210.8	194.2	180.9	169.3	164.3	167.7
65°	227.4	222.4	202.5	180.9	166.0	152.7	144.3	147.7	151.0
67.5°	195.8	189.2	172.7	152.7	139.5	129.4	124.4	131.1	132.8
70°	164.3	157.6	142.7	126.2	114.5	107.9	107.9	112.9	114.5
72.5°	134.4	129.4	116.2	102.9	94.6	89.6	93.0	96.2	98.0
75°	107.9	102.9	93.0	81.3	73.0	73.0	76.3	79.7	81.3
77.5°	82.9	79.7	69.7	61.4	58.1	58.1	61.4	63.0	64.8
80°	58.1	54.8	49.7	44.9	41.5	44.9	48.1	48.1	49.7
82.5°	38.2	36.5	33.2	29.8	29.8	31.6	33.2	34.8	34.8
85°	19.9	19.9	18.3	16.5	18.3	19.9	19.9	21.6	21.6
87.5°	6.6	6.6	6.6	6.6	8.3	8.3	8.3	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)