

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: P582117

Luminaire Tested: **HC625D010-HM60525940-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582117
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC625D010-HM60525940-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2438.6 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

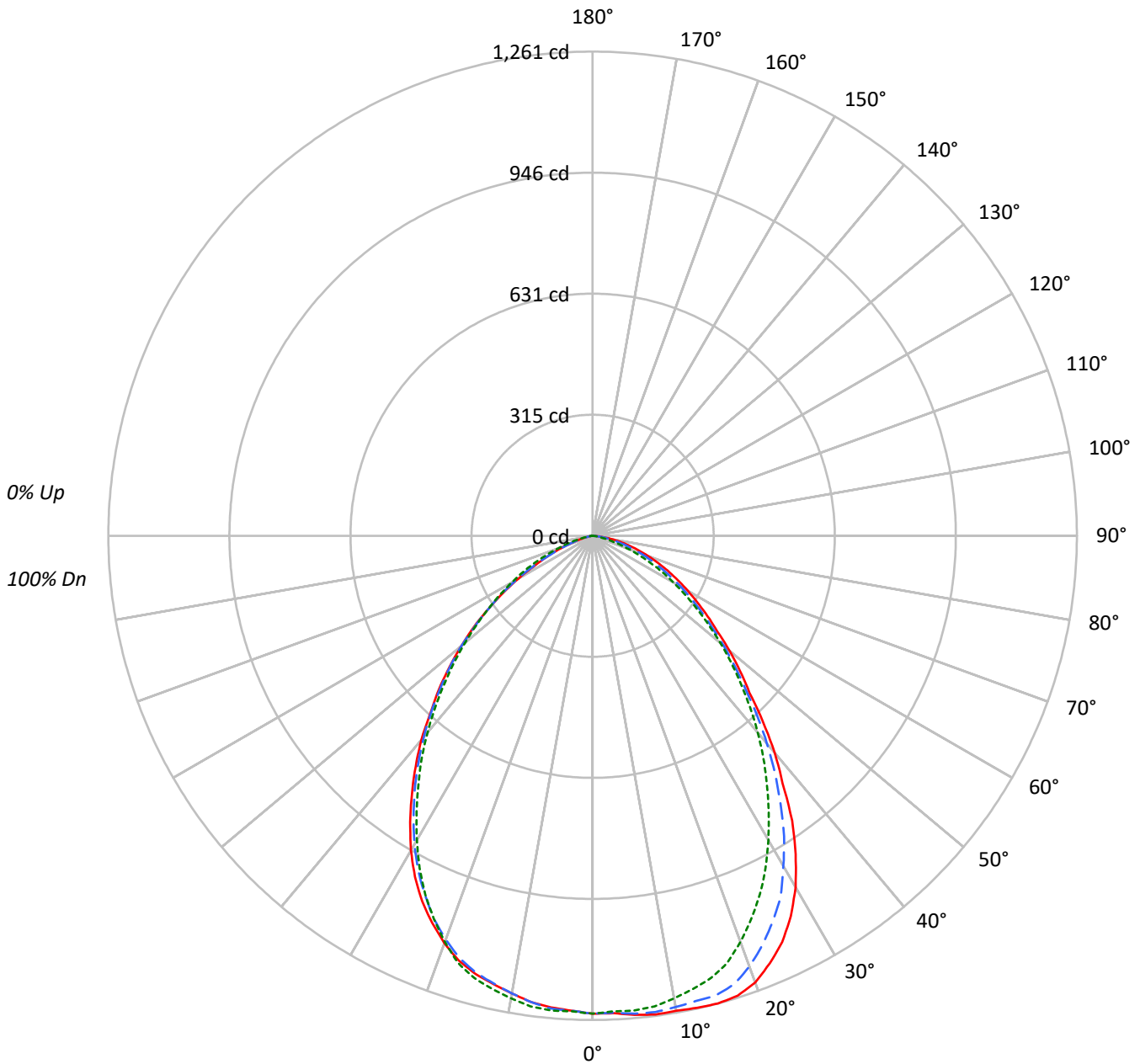
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77								
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67								
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59								
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53								
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35								
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	68224	68224	68224
5°	68930	68303	67857
10°	69911	68096	67372
15°	71555	67673	67026
20°	72223	65654	65847
25°	70637	62350	63536
30°	66903	57927	59883
35°	60585	52936	54910
40°	52763	47854	49607
45°	44764	42361	43881
50°	39649	37005	37977
55°	34923	31655	31483
60°	31291	26654	24494
65°	27928	21377	17551
70°	24587	15419	10979
75°	20736	9320	6206
80°	15974	4104	2557
85°	9246	1006	1006



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.1	4.8
10°-20°	339.5	13.9
20°-30°	490.8	20.1
30°-40°	516.4	21.2
40°-50°	434.1	17.8
50°-60°	304.7	12.5
60°-70°	167.6	6.9
70°-80°	59.5	2.4
80°-90°	7.8	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°	948.4	38.9
0°-40°	1464.8	60.1
0°-60°	2203.7	90.4
0°-90°	2438.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2438.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1244	1244	1244	1244	1244	
5°	1253	1249	1241	1236	1233	120
15°	1261	1240	1192	1178	1181	356
25°	1168	1109	1031	1032	1050	534
35°	905	853	791	807	820	561
45°	577	561	546	560	566	453
55°	365	346	331	331	329	329
65°	215	192	165	135	135	214
75°	98	78	44	29	29	105
85°	15	8	2	2	2	20
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°	1244.5	1244.5	1244.5	1244.5	1244.5	1244.5	1244.5	1244.5	1244.5
2.5°	1244.5	1244.5	1242.9	1242.9	1239.6	1239.6	1238.0	1238.0	1238.0
5°	1252.6	1252.6	1249.4	1244.5	1241.2	1236.3	1236.3	1234.7	1233.1
7.5°	1257.5	1255.9	1251.0	1244.5	1236.3	1228.2	1224.9	1226.6	1224.9
10°	1255.9	1252.6	1246.1	1233.1	1223.3	1211.9	1210.3	1208.6	1210.3
12.5°	1259.1	1254.3	1241.2	1224.9	1208.6	1195.6	1194.0	1194.0	1195.6
15°	1260.8	1255.9	1239.6	1215.2	1192.4	1179.3	1177.6	1179.3	1181.0
17.5°	1255.9	1249.4	1224.9	1192.4	1166.2	1153.1	1153.1	1156.4	1159.7
20°	1238.0	1228.2	1194.0	1154.8	1125.4	1115.7	1118.9	1125.4	1128.7
22.5°	1205.4	1194.0	1154.8	1110.8	1079.7	1071.6	1079.7	1088.0	1091.2
25°	1167.8	1154.8	1109.2	1063.4	1030.8	1021.1	1032.5	1045.5	1050.4
27.5°	1117.3	1102.6	1060.2	1008.0	975.3	970.4	983.5	998.3	1001.5
30°	1056.9	1040.6	993.4	944.4	915.1	913.4	928.1	941.1	946.0
32.5°	983.5	968.8	928.1	879.1	853.0	853.0	867.7	879.1	884.0
35°	905.3	888.9	853.0	812.3	791.0	792.6	807.4	815.6	820.5
37.5°	812.3	807.4	779.6	745.4	730.7	734.0	745.4	751.9	756.8
40°	737.3	724.2	706.2	678.5	668.7	672.0	683.4	689.9	693.2
42.5°	655.7	647.6	632.9	613.3	606.7	611.6	621.5	626.4	624.7
45°	577.4	575.8	561.1	549.7	546.4	552.9	559.5	564.4	566.0
47.5°	520.4	513.7	500.7	492.6	489.3	495.8	502.3	505.6	505.6
50°	464.9	458.3	445.3	437.2	433.9	440.4	445.3	448.6	445.3
52.5°	409.4	402.8	391.4	381.7	380.0	383.3	384.9	386.6	389.8
55°	365.4	358.9	345.8	334.4	331.2	332.8	331.2	331.2	329.4
57.5°	322.9	316.4	303.4	290.3	285.4	283.8	278.9	277.3	275.7
60°	285.4	277.3	264.3	249.6	243.1	236.6	228.3	223.4	223.4
62.5°	249.6	241.5	226.7	213.6	203.9	192.5	179.4	172.9	172.9
65°	215.3	208.7	192.5	177.8	164.8	150.1	135.3	132.1	135.3
67.5°	182.7	176.2	159.9	145.2	128.8	110.9	97.9	97.9	101.1
70°	153.4	146.9	132.1	114.1	96.2	78.3	68.5	68.5	68.5
72.5°	125.6	119.0	102.7	86.5	68.5	50.6	45.6	47.4	45.6
75°	97.9	93.0	78.3	60.4	44.0	30.9	29.3	27.7	29.3
77.5°	73.4	68.5	55.5	39.1	24.4	17.9	16.3	16.3	16.3
80°	50.6	45.6	35.8	22.8	13.0	8.1	8.1	8.1	8.1
82.5°	30.9	26.1	19.5	11.4	4.9	4.9	4.9	4.9	4.9
85°	14.7	11.4	8.1	3.3	1.6	1.6	1.6	1.6	1.6
87.5°	3.3	3.3	1.6	1.6	0.0	1.6	1.6	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)