

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: P582045

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582045
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-HM60525840-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2902.2 lumens
Efficiency: N/A
Efficacy: 108.3 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

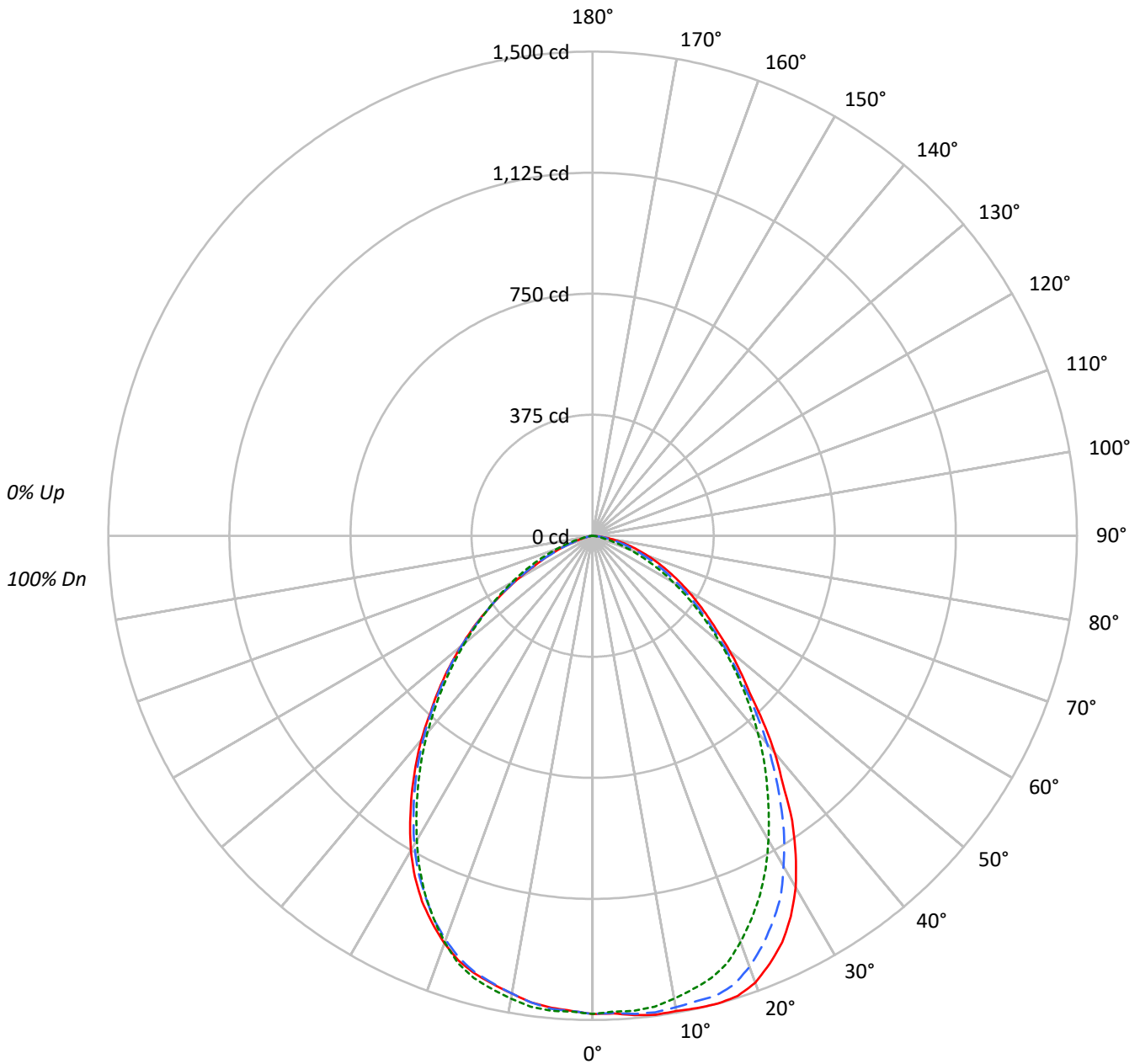
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	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°	81200	81200	81200
5°	82038	81295	80756
10°	83204	81044	80176
15°	85159	80534	79762
20°	85956	78144	78366
25°	84065	74206	75615
30°	79626	68935	71264
35°	72096	63008	65350
40°	62789	56957	59039
45°	53269	50416	52222
50°	47180	44041	45193
55°	41556	37667	37475
60°	37245	31708	29153
65°	33233	25437	20897
70°	29236	18352	13079
75°	24676	11099	7413
80°	18973	4893	3031
85°	10944	1195	1195



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.6	4.8
10°-20°	404.1	13.9
20°-30°	584.1	20.1
30°-40°	614.6	21.2
40°-50°	516.7	17.8
50°-60°	362.6	12.5
60°-70°	199.5	6.9
70°-80°	70.8	2.4
80°-90°	9.2	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°	1128.8	38.9
0°-40°	1743.4	60.1
0°-60°	2622.6	90.4
0°-90°	2902.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2902.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1481	1481	1481	1481	1481	
5°	1491	1487	1477	1471	1468	142
15°	1500	1475	1419	1402	1405	423
25°	1390	1320	1227	1229	1250	636
35°	1077	1015	942	961	976	668
45°	687	668	650	666	674	539
55°	435	412	394	394	392	391
65°	256	229	196	161	161	255
75°	116	93	52	35	35	125
85°	17	10	2	2	2	24
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°	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2
2.5°	1481.2	1481.2	1479.2	1479.2	1475.3	1475.3	1473.4	1473.4	1473.4
5°	1490.8	1490.8	1486.9	1481.2	1477.3	1471.4	1471.4	1469.5	1467.5
7.5°	1496.6	1494.7	1488.9	1481.2	1471.4	1461.7	1457.9	1459.7	1457.9
10°	1494.7	1490.8	1483.1	1467.5	1455.9	1442.3	1440.3	1438.4	1440.3
12.5°	1498.6	1492.7	1477.3	1457.9	1438.4	1422.9	1420.9	1420.9	1422.9
15°	1500.5	1494.7	1475.3	1446.2	1419.0	1403.5	1401.5	1403.5	1405.4
17.5°	1494.7	1486.9	1457.9	1419.0	1387.9	1372.4	1372.4	1376.3	1380.2
20°	1473.4	1461.7	1420.9	1374.3	1339.5	1327.8	1331.7	1339.5	1343.3
22.5°	1434.6	1420.9	1374.3	1321.9	1285.1	1275.3	1285.1	1294.7	1298.6
25°	1389.8	1374.3	1320.0	1265.7	1226.8	1215.2	1228.8	1244.2	1250.1
27.5°	1329.7	1312.3	1261.8	1199.6	1160.8	1155.0	1170.6	1188.0	1191.9
30°	1257.9	1238.5	1182.2	1123.9	1089.0	1087.1	1104.5	1120.1	1125.8
32.5°	1170.6	1153.0	1104.5	1046.3	1015.2	1015.2	1032.7	1046.3	1052.1
35°	1077.3	1057.9	1015.2	966.7	941.5	943.4	960.9	970.6	976.5
37.5°	966.7	960.9	927.8	887.1	869.6	873.5	887.1	894.9	900.7
40°	877.4	861.9	840.5	807.6	795.9	799.8	813.3	821.1	825.0
42.5°	780.4	770.6	753.2	729.9	722.1	728.0	739.6	745.4	743.5
45°	687.1	685.3	667.7	654.2	650.3	658.1	665.8	671.6	673.6
47.5°	619.2	611.5	595.9	586.3	582.4	590.2	597.9	601.8	601.8
50°	553.2	545.4	529.9	520.2	516.4	524.1	529.9	533.8	529.9
52.5°	487.3	479.5	465.9	454.2	452.3	456.2	458.1	460.1	464.0
55°	434.8	427.0	411.5	398.0	394.1	395.9	394.1	394.1	392.1
57.5°	384.3	376.5	361.1	345.6	339.7	337.8	331.9	330.0	328.0
60°	339.7	330.0	314.5	297.0	289.2	281.4	271.8	265.9	265.9
62.5°	297.0	287.3	269.8	254.2	242.7	229.0	213.5	205.7	205.7
65°	256.2	248.5	229.0	211.6	196.1	178.6	161.1	157.3	161.1
67.5°	217.4	209.6	190.2	172.8	153.4	131.9	116.5	116.5	120.4
70°	182.4	174.7	157.3	135.8	114.5	93.2	81.6	81.6	81.6
72.5°	149.5	141.7	122.3	102.9	81.6	60.1	54.4	56.3	54.4
75°	116.5	110.6	93.2	71.8	52.4	36.8	35.0	33.0	35.0
77.5°	87.3	81.6	66.0	46.6	29.1	21.3	19.4	19.4	19.4
80°	60.1	54.4	42.7	27.2	15.5	9.6	9.6	9.6	9.6
82.5°	36.8	31.1	23.3	13.5	5.8	5.8	5.8	5.8	5.8
85°	17.4	13.5	9.6	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)