

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: P582106

Luminaire Tested: **HC625D010-HM60525935-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582106
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-HM60525935-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2229.6 lumens
Efficiency: N/A
Efficacy: 83.2 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

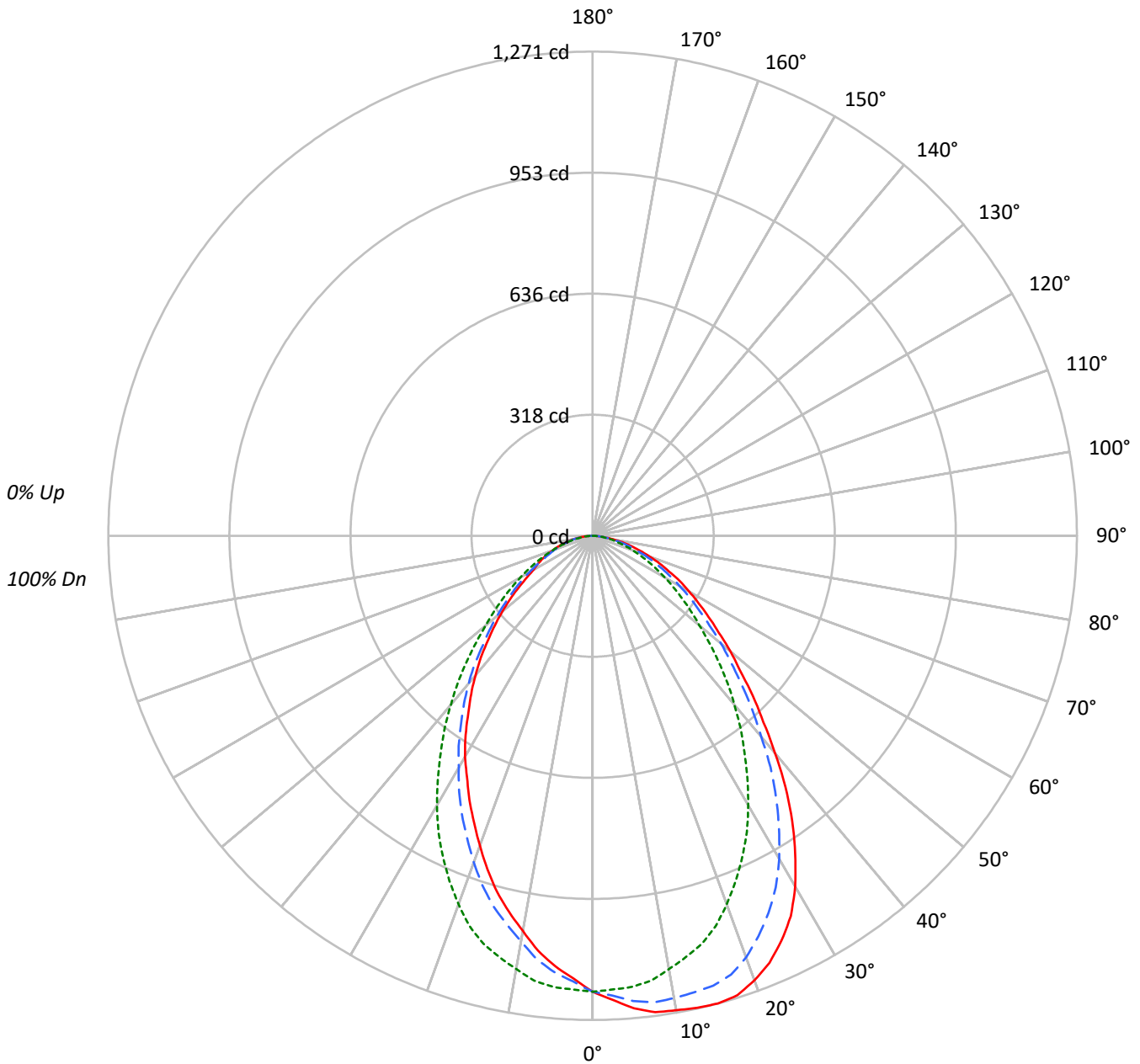
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	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°	65614	65614	65614
5°	68523	65419	62409
10°	70389	64294	58644
15°	72134	62900	54949
20°	72456	60048	50469
25°	70940	56223	46285
30°	67301	51698	42418
35°	61128	46465	38052
40°	53264	41392	34236
45°	46082	36213	30096
50°	40255	31180	26370
55°	35564	27402	22632
60°	31971	24011	19604
65°	28628	20897	19016
70°	25565	17807	17807
75°	22198	15017	16712
80°	17805	12691	15280
85°	12140	11133	13146



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	5.0
10°-20°	312.7	14.0
20°-30°	435.8	19.5
30°-40°	449.0	20.1
40°-50°	372.1	16.7
50°-60°	267.4	12.0
60°-70°	170.3	7.6
70°-80°	87.5	3.9
80°-90°	22.2	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°	861.0	38.6
0°-40°	1310.0	58.8
0°-60°	1949.6	87.4
0°-90°	2229.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2229.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1197	1197	1197	1197	1197	
5°	1245	1226	1189	1150	1134	119
15°	1271	1223	1108	1007	968	358
25°	1173	1092	930	810	765	537
35°	913	839	694	602	569	567
45°	594	553	467	408	388	460
55°	372	342	287	254	237	335
65°	221	197	161	140	147	221
75°	105	90	71	74	79	112
85°	19	18	18	19	21	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°	1196.9	1196.9	1196.9	1196.9	1196.9	1196.9	1196.9	1196.9	1196.9
2.5°	1219.4	1214.7	1208.1	1201.8	1192.1	1180.8	1171.2	1167.9	1163.0
5°	1245.2	1238.8	1225.9	1209.8	1188.8	1167.9	1150.3	1139.0	1134.1
7.5°	1261.4	1253.3	1235.6	1208.1	1177.6	1147.0	1121.2	1105.1	1098.6
10°	1264.5	1256.5	1232.3	1195.4	1155.0	1113.2	1081.0	1061.7	1053.5
12.5°	1269.4	1258.1	1227.6	1184.1	1132.5	1084.1	1043.9	1019.7	1011.7
15°	1271.0	1258.1	1222.7	1169.6	1108.3	1050.4	1006.8	977.8	968.2
17.5°	1264.5	1250.1	1208.1	1143.7	1074.4	1013.3	961.7	931.1	918.2
20°	1242.0	1225.9	1177.6	1105.1	1029.3	964.9	911.8	879.6	865.1
22.5°	1213.0	1192.1	1137.3	1060.0	981.1	913.4	860.2	828.0	813.6
25°	1172.8	1153.4	1092.2	1010.0	929.5	858.7	810.3	776.5	765.2
27.5°	1126.1	1103.5	1040.6	958.5	876.3	805.4	758.7	728.1	713.6
30°	1063.2	1042.2	979.5	897.3	816.7	750.7	702.3	676.6	670.1
32.5°	989.1	971.5	910.2	832.9	755.6	694.3	654.1	626.6	620.2
35°	913.4	892.5	839.3	766.8	694.3	639.5	602.4	578.4	568.6
37.5°	831.2	811.9	766.8	702.3	637.9	586.4	554.2	533.3	523.5
40°	744.3	729.7	687.9	636.3	578.4	533.3	505.8	488.2	478.4
42.5°	663.7	649.2	620.2	571.9	523.5	483.3	459.1	443.1	434.9
45°	594.4	581.5	552.6	510.7	467.1	433.3	407.6	396.3	388.2
47.5°	525.1	518.7	492.9	454.3	414.0	385.0	367.3	354.3	348.0
50°	472.0	464.0	439.8	399.5	365.6	343.1	327.0	315.8	309.2
52.5°	417.2	409.2	386.7	352.8	325.4	304.5	288.3	278.7	272.3
55°	372.1	365.6	341.6	310.9	286.7	269.0	254.5	243.2	236.8
57.5°	330.3	323.8	301.2	272.3	251.4	235.2	222.3	212.6	204.6
60°	291.6	286.7	264.1	236.8	219.0	203.0	191.7	183.7	178.8
62.5°	257.7	248.1	228.8	204.6	188.5	175.5	164.3	159.5	162.8
65°	220.7	215.9	196.6	175.5	161.1	148.2	140.2	143.3	146.6
67.5°	190.1	183.7	167.5	148.2	135.3	125.7	120.8	127.3	128.9
70°	159.5	153.0	138.6	122.4	111.1	104.8	104.8	109.5	111.1
72.5°	130.4	125.7	112.8	99.9	91.8	87.0	90.2	93.5	95.1
75°	104.8	99.9	90.2	78.9	70.9	70.9	74.1	77.3	78.9
77.5°	80.6	77.3	67.7	59.6	56.4	56.4	59.6	61.3	62.8
80°	56.4	53.1	48.4	43.5	40.2	43.5	46.7	46.7	48.4
82.5°	37.1	35.5	32.2	28.9	28.9	30.6	32.2	33.8	33.8
85°	19.3	19.3	17.7	16.2	17.7	19.3	19.3	20.9	20.9
87.5°	6.4	6.4	6.4	6.4	8.0	8.0	8.0	8.0	8.0
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)