

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: P582141

Luminaire Tested: **HC630D010-HM63040827-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582141
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: HC630D010-HM63040827-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2593.7 lumens
Efficiency: N/A
Efficacy: 92.6 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

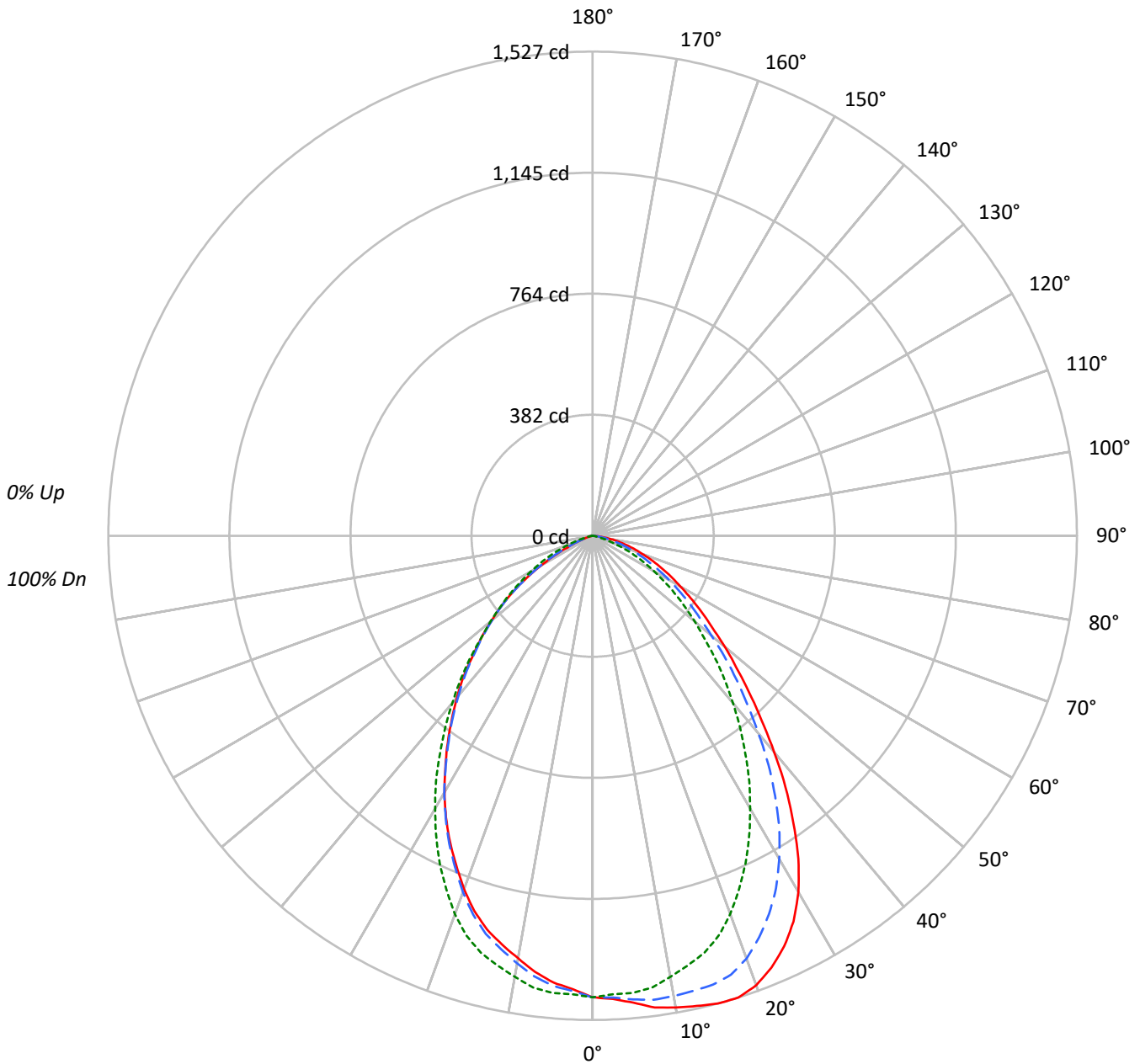
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	67	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°	79796	79796	79796
5°	81334	79650	77845
10°	84094	78628	75327
15°	86675	77265	72969
20°	88015	74049	69149
25°	86430	68974	64389
30°	82158	62845	59091
35°	73843	56169	53298
40°	63734	49221	47618
45°	53959	42376	41268
50°	46267	35794	35444
55°	40113	30126	28960
60°	35019	24472	20645
65°	30794	18848	11415
70°	26591	12470	5578
75°	22536	6079	2160
80°	17458	2589	1263
85°	10315	1258	1258



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.4	5.3
10°-20°	388.4	15.0
20°-30°	547.0	21.1
30°-40°	558.9	21.5
40°-50°	450.6	17.4
50°-60°	302.2	11.7
60°-70°	152.9	5.9
70°-80°	48.9	1.9
80°-90°	7.5	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°	1072.8	41.4
0°-40°	1631.6	62.9
0°-60°	2384.4	91.9
0°-90°	2593.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2593.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1456	1456	1456	1456	1456	
5°	1478	1468	1447	1425	1415	142
15°	1527	1466	1361	1300	1286	431
25°	1429	1316	1140	1071	1064	654
35°	1103	1003	839	792	796	687
45°	696	641	547	528	532	541
55°	420	373	315	301	303	378
65°	237	196	145	96	88	237
75°	106	76	29	10	10	114
85°	16	8	2	2	2	22
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°	1455.6	1455.6	1455.6	1455.6	1455.6	1455.6	1455.6	1455.6	1455.6
2.5°	1461.6	1459.6	1457.6	1453.4	1447.4	1441.2	1437.1	1433.0	1431.0
5°	1478.0	1474.0	1467.8	1459.6	1447.4	1433.0	1424.8	1416.6	1414.6
7.5°	1500.5	1492.4	1476.0	1457.6	1437.1	1416.6	1402.3	1394.1	1387.9
10°	1510.7	1496.5	1474.0	1443.2	1412.5	1387.9	1369.5	1357.2	1353.2
12.5°	1518.9	1502.7	1469.8	1428.9	1387.9	1355.2	1334.8	1324.5	1320.4
15°	1527.2	1510.7	1465.8	1412.5	1361.4	1322.4	1299.9	1289.7	1285.7
17.5°	1527.2	1504.7	1451.4	1383.9	1322.4	1275.3	1252.8	1242.6	1240.6
20°	1508.7	1484.2	1418.7	1338.8	1269.3	1216.0	1195.5	1189.4	1185.3
22.5°	1474.0	1445.3	1371.6	1281.5	1205.8	1154.6	1132.0	1128.0	1123.8
25°	1428.9	1400.3	1316.3	1220.2	1140.3	1089.1	1070.7	1066.5	1064.5
27.5°	1371.6	1340.8	1252.8	1154.6	1068.7	1019.4	1003.2	1003.2	1001.0
30°	1297.9	1263.1	1177.1	1078.9	992.8	947.9	935.5	935.5	933.5
32.5°	1207.8	1173.1	1095.2	1001.0	919.2	872.1	861.9	865.9	863.9
35°	1103.4	1074.7	1003.2	911.0	839.3	796.4	792.2	796.4	796.4
37.5°	999.0	972.4	911.0	831.1	763.6	724.7	724.7	730.9	728.7
40°	890.6	870.0	812.7	743.1	687.8	661.2	657.2	663.2	665.4
42.5°	788.2	771.8	722.7	665.4	616.1	589.6	595.7	599.9	601.9
45°	696.0	679.6	640.8	581.4	546.6	528.2	528.2	534.3	532.3
47.5°	614.1	601.9	563.0	505.7	474.9	466.8	470.8	474.9	474.9
50°	542.5	524.1	487.3	442.2	419.7	409.4	413.5	415.6	415.6
52.5°	474.9	462.6	425.8	384.9	364.4	358.2	358.2	360.3	360.3
55°	419.7	405.3	372.6	331.6	315.2	307.1	300.9	298.9	303.0
57.5°	366.4	354.2	323.4	284.5	266.1	257.9	245.6	241.6	245.6
60°	319.4	309.1	278.5	241.6	223.2	206.8	192.4	184.3	188.3
62.5°	278.5	266.1	235.4	204.7	184.3	165.9	143.3	131.0	137.2
65°	237.4	227.2	196.5	165.9	145.3	122.8	96.2	88.0	88.0
67.5°	200.6	190.4	161.7	135.1	110.6	83.9	59.3	57.3	59.3
70°	165.9	155.6	131.0	104.4	77.8	51.1	34.8	34.8	34.8
72.5°	137.2	124.8	102.4	75.7	49.1	26.6	18.4	20.5	20.5
75°	106.4	96.2	75.7	51.1	28.7	12.2	10.2	10.2	10.2
77.5°	79.8	71.7	53.3	32.7	14.4	4.0	4.0	4.0	4.0
80°	55.3	47.1	34.8	20.5	8.2	4.0	4.0	4.0	4.0
82.5°	32.7	28.7	20.5	10.2	4.0	2.0	2.0	2.0	2.0
85°	16.4	14.4	8.2	4.0	2.0	2.0	2.0	2.0	2.0
87.5°	4.0	4.0	2.0	2.0	0.0	2.0	2.0	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)