

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: P582215

Luminaire Tested: **HC630D010-HM63040927-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC630D010-HM63040927-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2477.0 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

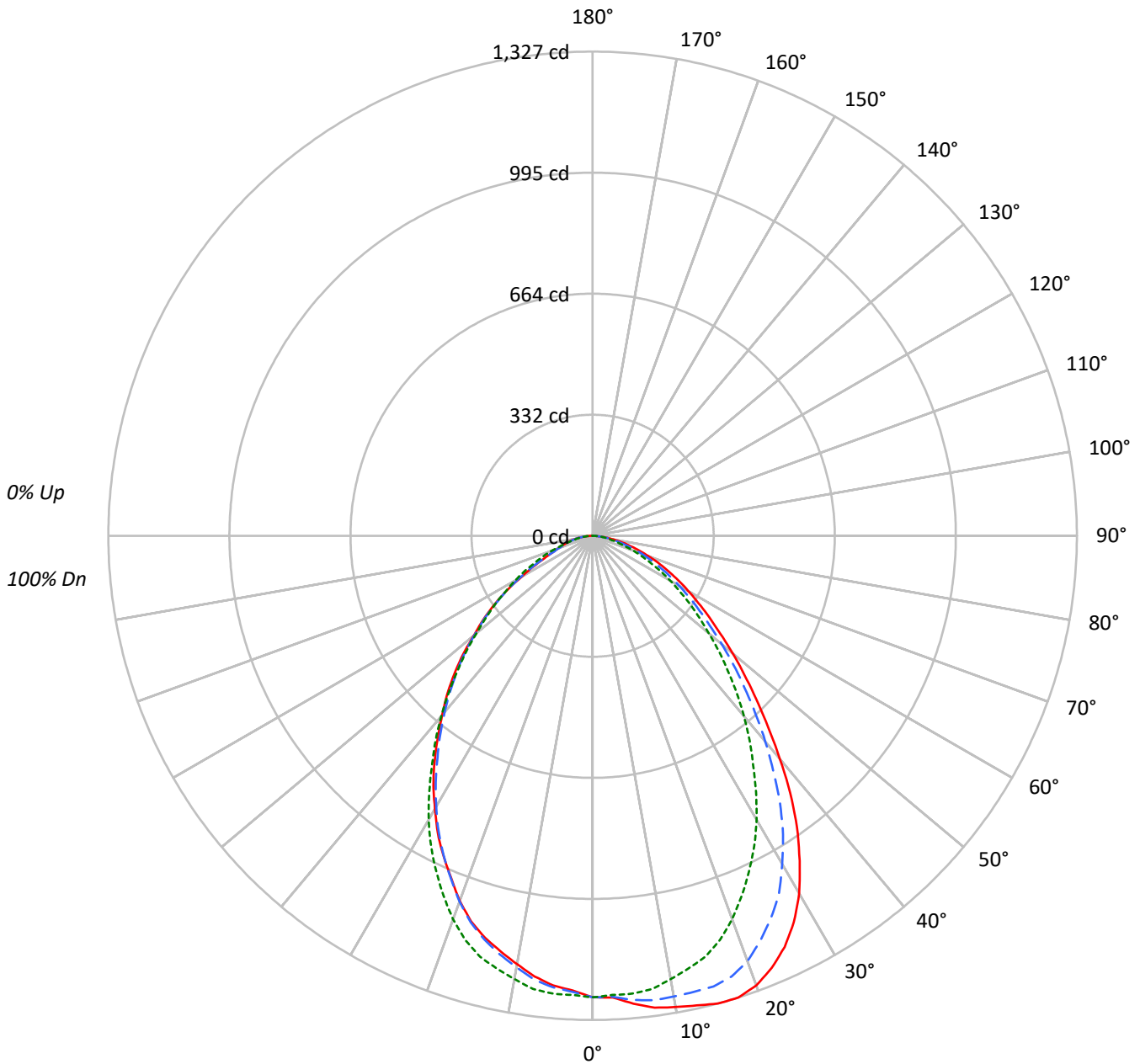
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87																			
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76																			
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66																			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58																			
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52																			
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	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	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	69342	69342	69342
5°	70840	69315	68083
10°	73006	68675	66370
15°	75313	67764	64728
20°	76511	65222	62095
25°	75252	61352	58528
30°	71644	56876	54686
35°	65337	51337	50534
40°	57128	46129	45879
45°	49160	40586	41524
50°	42728	35368	36101
55°	37322	31043	31378
60°	33155	26906	24625
65°	29588	22635	18835
70°	26030	18561	15772
75°	22303	14636	15017
80°	18026	12533	14711
85°	11951	10819	13020



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.8	4.8
10°-20°	340.9	13.8
20°-30°	486.7	19.6
30°-40°	509.8	20.6
40°-50°	429.2	17.3
50°-60°	305.5	12.3
60°-70°	178.8	7.2
70°-80°	84.6	3.4
80°-90°	21.8	0.9
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°	947.4	38.2
0°-40°	1457.1	58.8
0°-60°	2191.8	88.5
0°-90°	2477.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2477.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1265	1265	1265	1265	1265	
5°	1287	1277	1260	1242	1237	124
15°	1327	1279	1194	1146	1140	375
25°	1244	1156	1014	966	968	569
35°	976	895	767	741	755	606
45°	634	588	524	525	536	492
55°	390	358	325	325	328	352
65°	228	202	174	147	145	227
75°	105	88	69	67	71	113
85°	19	16	17	21	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°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1266.5	1266.5	1264.9	1263.1	1259.6	1254.5	1251.1	1247.6	1247.6
5°	1287.3	1283.9	1277.0	1268.3	1259.6	1249.3	1242.4	1237.2	1237.2
7.5°	1304.6	1297.7	1283.9	1268.3	1252.7	1238.9	1226.8	1219.9	1218.1
10°	1311.5	1302.9	1282.1	1258.0	1233.7	1214.7	1200.9	1192.3	1192.3
12.5°	1318.4	1308.0	1280.4	1245.8	1214.7	1188.8	1175.0	1168.1	1166.4
15°	1327.0	1313.3	1278.7	1235.5	1194.0	1164.6	1145.6	1140.5	1140.5
17.5°	1327.0	1309.8	1266.5	1213.0	1161.2	1128.4	1111.0	1105.9	1107.6
20°	1311.5	1292.4	1240.6	1175.0	1118.0	1083.4	1066.2	1062.7	1064.4
22.5°	1282.1	1259.6	1200.9	1130.0	1067.8	1031.6	1016.0	1016.0	1014.3
25°	1244.1	1219.9	1155.9	1081.6	1014.3	978.0	965.9	967.6	967.6
27.5°	1194.0	1169.9	1105.9	1026.3	959.0	922.7	914.1	917.6	919.2
30°	1131.8	1105.9	1038.5	960.7	898.5	862.3	857.0	862.3	863.9
32.5°	1055.7	1036.8	971.1	891.6	832.9	801.7	800.1	805.2	812.1
35°	976.3	955.6	895.1	822.6	767.1	741.2	741.2	749.9	755.1
37.5°	889.8	869.2	813.9	753.4	706.7	682.5	685.9	694.6	696.4
40°	798.3	782.7	736.1	684.3	644.6	625.5	630.6	639.3	641.1
42.5°	711.9	698.1	660.0	613.4	584.0	570.2	577.1	587.5	590.9
45°	634.1	618.6	587.5	547.8	523.5	516.6	525.3	532.2	535.6
47.5°	563.3	549.4	523.5	487.3	470.0	466.6	475.1	478.7	482.1
50°	501.0	487.3	461.3	428.5	414.7	414.7	421.6	425.1	423.3
52.5°	440.6	428.5	404.4	376.7	368.0	368.0	373.2	375.0	378.5
55°	390.5	378.5	357.7	331.7	324.8	321.4	324.8	324.8	328.3
57.5°	343.9	333.5	314.5	290.2	281.7	278.2	276.4	274.8	278.2
60°	302.4	293.8	273.0	252.3	245.4	236.7	229.8	222.9	224.6
62.5°	264.3	255.8	236.7	216.0	209.0	197.0	188.3	179.7	183.1
65°	228.1	219.5	202.1	184.9	174.5	160.8	146.8	141.7	145.2
67.5°	195.2	188.3	171.1	153.7	145.2	129.6	115.8	115.8	117.5
70°	162.4	155.5	141.7	126.2	115.8	101.9	96.8	98.4	98.4
72.5°	133.0	127.8	114.0	100.2	89.9	81.2	81.2	83.0	84.7
75°	105.3	101.9	88.1	76.0	69.1	64.0	67.4	69.1	70.9
77.5°	81.2	76.0	65.6	57.1	51.8	53.6	57.1	58.7	60.5
80°	57.1	55.3	46.6	41.5	39.7	41.5	44.9	46.6	46.6
82.5°	36.3	34.6	29.4	27.7	27.7	29.4	32.8	32.8	32.8
85°	19.0	17.2	15.6	15.6	17.2	19.0	20.7	20.7	20.7
87.5°	6.9	5.2	6.9	6.9	8.7	8.7	8.7	8.7	8.7
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)