

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: P582214

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582214
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: HC630D010-HM63040927-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2392.3 lumens
Efficiency: N/A
Efficacy: 85.4 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

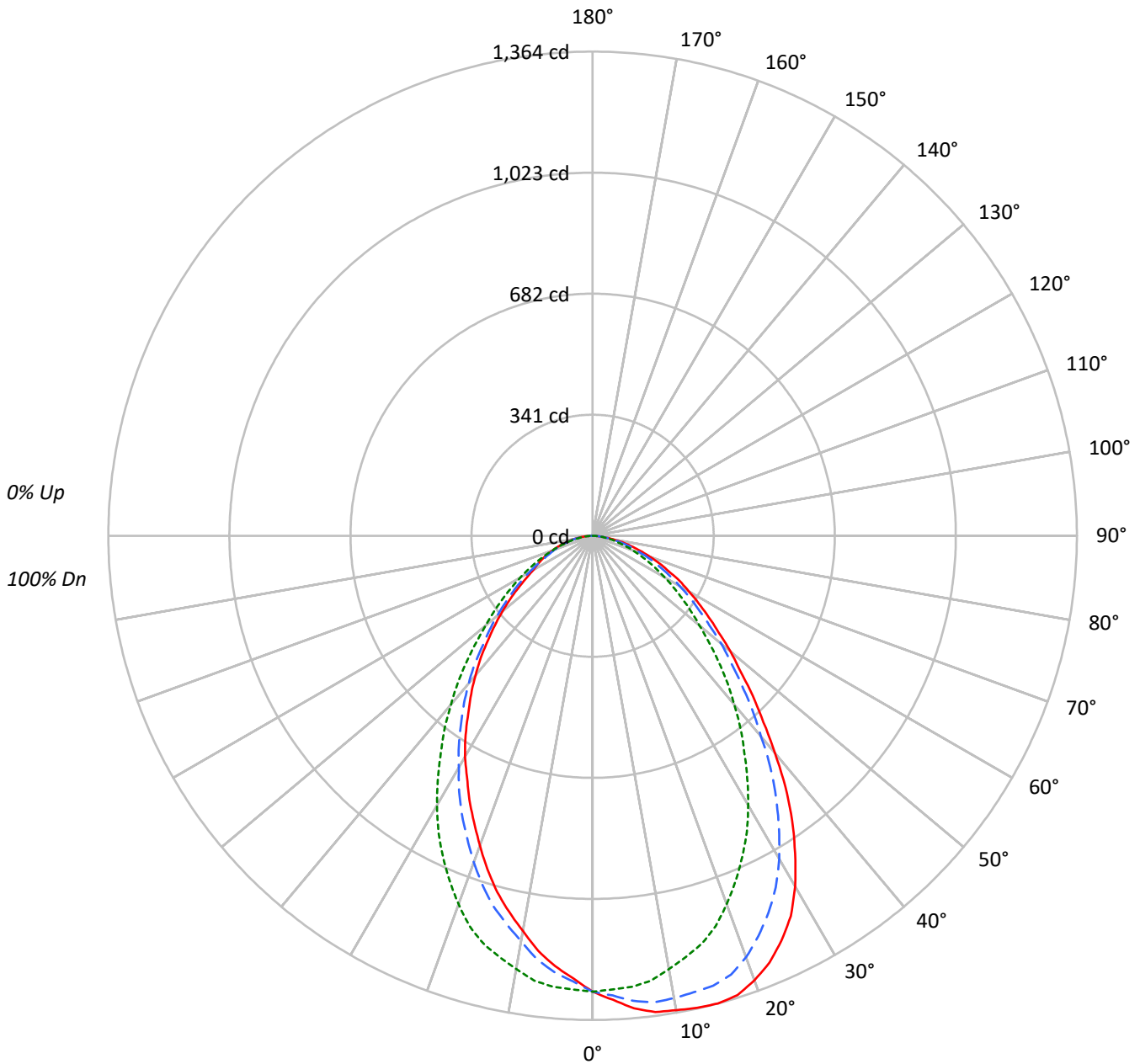
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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°	70400	70400	70400
5°	73525	70201	66960
10°	75533	68987	62925
15°	77401	67492	58956
20°	77742	64435	54156
25°	76111	60324	49660
30°	72214	55471	45520
35°	65591	49858	40836
40°	57143	44405	36740
45°	49447	38864	32298
50°	43188	33466	28298
55°	38164	29409	24286
60°	34295	25776	21040
65°	30717	22428	20404
70°	27424	19122	19122
75°	23807	16119	17940
80°	19100	13638	16353
85°	13020	11951	14152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.7	5.0
10°-20°	335.5	14.0
20°-30°	467.6	19.5
30°-40°	481.8	20.1
40°-50°	399.3	16.7
50°-60°	287.0	12.0
60°-70°	182.7	7.6
70°-80°	93.9	3.9
80°-90°	23.9	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°	923.8	38.6
0°-40°	1405.6	58.8
0°-60°	2091.9	87.4
0°-90°	2392.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2392.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1284	1284	1284	1284	1284	
5°	1336	1315	1276	1234	1217	128
15°	1364	1312	1189	1080	1039	384
25°	1258	1172	997	869	821	577
35°	980	900	745	646	610	609
45°	638	593	501	437	417	494
55°	399	366	308	273	254	360
65°	237	211	173	150	157	237
75°	112	97	76	80	85	120
85°	21	19	19	21	22	27
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°	1284.2	1284.2	1284.2	1284.2	1284.2	1284.2	1284.2	1284.2	1284.2
2.5°	1308.5	1303.3	1296.4	1289.5	1279.1	1267.0	1256.7	1253.2	1248.0
5°	1336.1	1329.2	1315.4	1298.2	1275.7	1253.2	1234.2	1222.1	1216.8
7.5°	1353.4	1344.8	1325.7	1296.4	1263.6	1230.7	1203.0	1185.8	1178.9
10°	1356.9	1348.2	1322.3	1282.6	1239.3	1194.4	1159.9	1139.1	1130.4
12.5°	1362.1	1350.0	1317.2	1270.4	1215.2	1163.3	1120.0	1094.1	1085.6
15°	1363.8	1350.0	1311.9	1254.9	1189.2	1126.9	1080.3	1049.2	1038.8
17.5°	1356.9	1341.3	1296.4	1227.3	1152.9	1087.2	1031.9	999.1	985.2
20°	1332.6	1315.4	1263.6	1185.8	1104.5	1035.4	978.3	943.7	928.3
22.5°	1301.6	1279.1	1220.3	1137.4	1052.6	980.1	923.0	888.4	872.8
25°	1258.3	1237.6	1171.9	1083.8	997.3	921.2	869.4	833.1	821.0
27.5°	1208.3	1184.0	1116.6	1028.5	940.3	864.3	814.1	781.3	765.7
30°	1140.8	1118.4	1051.0	962.7	876.3	805.4	753.6	726.0	719.1
32.5°	1061.3	1042.3	976.6	893.7	810.7	745.0	701.7	672.4	665.5
35°	980.1	957.6	900.5	822.8	745.0	686.2	646.5	620.5	610.2
37.5°	891.9	871.2	822.8	753.6	684.5	629.2	594.6	572.1	561.8
40°	798.5	783.0	738.0	682.7	620.5	572.1	542.8	523.8	513.4
42.5°	712.1	696.6	665.5	613.6	561.8	518.5	492.6	475.4	466.7
45°	637.8	624.0	592.8	547.9	501.3	465.0	437.3	425.2	416.6
47.5°	563.5	556.6	528.9	487.5	444.2	413.1	394.2	380.2	373.3
50°	506.4	497.8	471.9	428.6	392.4	368.1	350.9	338.7	331.8
52.5°	447.7	439.1	414.8	378.6	349.2	326.7	309.4	299.0	292.1
55°	399.3	392.4	366.4	333.6	307.7	288.7	273.1	261.0	254.1
57.5°	354.3	347.4	323.3	292.1	269.7	252.3	238.5	228.2	219.5
60°	312.8	307.7	283.5	254.1	235.1	217.8	205.7	197.0	191.9
62.5°	276.6	266.2	245.4	219.5	202.2	188.5	176.3	171.1	174.5
65°	236.8	231.6	210.9	188.5	172.9	159.0	150.4	153.9	157.3
67.5°	203.9	197.0	179.8	159.0	145.2	134.8	129.6	136.5	138.3
70°	171.1	164.2	148.6	131.4	119.3	112.4	112.4	117.6	119.3
72.5°	140.1	134.8	121.0	107.1	98.6	93.3	96.8	100.2	102.0
75°	112.4	107.1	96.8	84.7	76.1	76.1	79.5	83.0	84.7
77.5°	86.4	83.0	72.6	64.0	60.5	60.5	64.0	65.6	67.4
80°	60.5	57.1	51.8	46.7	43.2	46.7	50.2	50.2	51.8
82.5°	39.7	38.0	34.6	31.2	31.2	32.8	34.6	36.3	36.3
85°	20.7	20.7	19.0	17.2	19.0	20.7	20.7	22.5	22.5
87.5°	6.9	6.9	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)