

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: P582207

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582207
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: HC630D010-HM63040927-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2584.2 lumens
Efficiency: N/A
Efficacy: 92.3 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

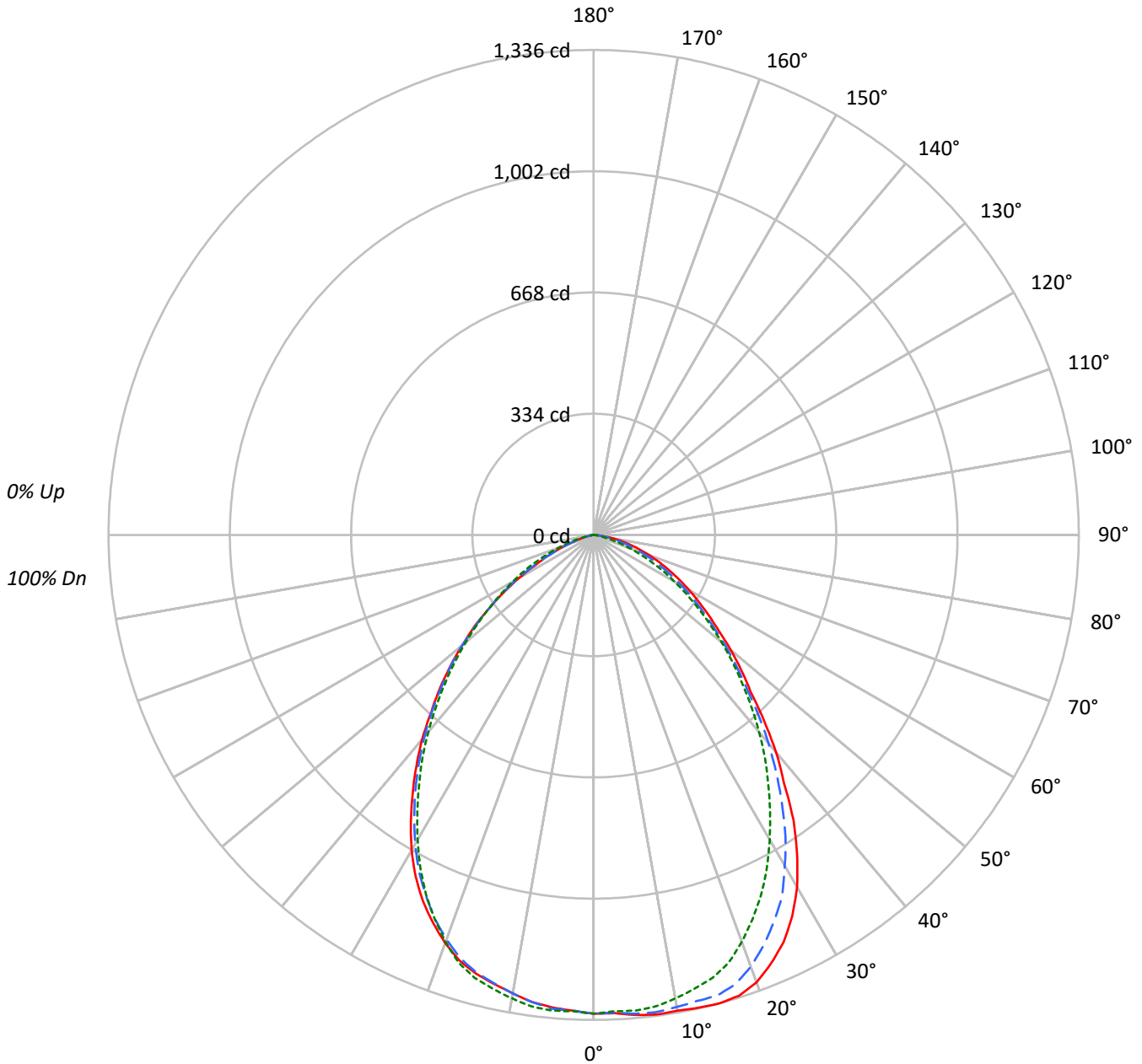
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77			77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67			67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59			59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53			53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47			47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42			42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38			38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35			35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32			32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	72297	72297	72297
5°	73046	72386	71907
10°	74091	72165	71397
15°	75829	71714	71022
20°	76534	69580	69779
25°	74859	66070	67328
30°	70897	61377	63465
35°	64199	56095	58183
40°	55912	50709	52570
45°	47439	44888	46493
50°	42011	39214	40246
55°	36997	33538	33366
60°	33166	28232	25963
65°	29601	22635	18614
70°	26030	16349	11637
75°	21965	9891	6608
80°	16921	4357	2747
85°	9812	1132	1132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.2	4.8
10°-20°	359.8	13.9
20°-30°	520.1	20.1
30°-40°	547.3	21.2
40°-50°	460.0	17.8
50°-60°	322.9	12.5
60°-70°	177.6	6.9
70°-80°	63.1	2.4
80°-90°	8.3	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°	1005.1	38.9
0°-40°	1552.3	60.1
0°-60°	2335.2	90.4
0°-90°	2584.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2584.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1319	1319	1319	1319	1319	
5°	1327	1324	1315	1310	1307	127
15°	1336	1314	1264	1248	1251	377
25°	1238	1175	1092	1094	1113	566
35°	959	904	838	856	869	595
45°	612	595	579	593	600	480
55°	387	366	351	351	349	348
65°	228	204	174	144	144	227
75°	104	83	47	31	31	111
85°	16	9	2	2	2	21
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°	1318.8	1318.8	1318.8	1318.8	1318.8	1318.8	1318.8	1318.8	1318.8
2.5°	1318.8	1318.8	1317.1	1317.1	1313.6	1313.6	1311.9	1311.9	1311.9
5°	1327.4	1327.4	1324.0	1318.8	1315.4	1310.2	1310.2	1308.5	1306.7
7.5°	1332.6	1331.0	1325.7	1318.8	1310.2	1301.5	1298.0	1299.8	1298.0
10°	1331.0	1327.4	1320.5	1306.7	1296.4	1284.2	1282.6	1280.8	1282.6
12.5°	1334.4	1329.2	1315.4	1298.0	1280.8	1267.0	1265.2	1265.2	1267.0
15°	1336.1	1331.0	1313.6	1287.7	1263.6	1249.6	1248.0	1249.6	1251.4
17.5°	1331.0	1324.0	1298.0	1263.6	1235.8	1222.1	1222.1	1225.5	1229.0
20°	1311.9	1301.5	1265.2	1223.7	1192.7	1182.2	1185.7	1192.7	1196.1
22.5°	1277.3	1265.2	1223.7	1177.1	1144.3	1135.6	1144.3	1152.9	1156.3
25°	1237.6	1223.7	1175.3	1126.9	1092.3	1082.0	1094.1	1107.9	1113.1
27.5°	1184.0	1168.4	1123.5	1068.2	1033.6	1028.5	1042.3	1057.9	1061.3
30°	1120.0	1102.8	1052.6	1000.8	969.6	968.0	983.5	997.3	1002.6
32.5°	1042.3	1026.7	983.5	931.6	904.0	904.0	919.6	931.6	936.8
35°	959.3	942.0	904.0	860.7	838.2	840.0	855.6	864.3	869.4
37.5°	860.7	855.6	826.2	789.9	774.4	777.8	789.9	796.9	802.0
40°	781.3	767.4	748.5	719.0	708.6	712.1	724.2	731.1	734.6
42.5°	694.9	686.2	670.6	649.9	643.0	648.1	658.6	663.7	662.0
45°	611.9	610.2	594.6	582.5	579.0	585.9	592.8	598.1	599.7
47.5°	551.3	544.4	530.7	522.0	518.5	525.4	532.3	535.8	535.8
50°	492.6	485.7	471.9	463.2	459.8	466.7	471.9	475.4	471.9
52.5°	433.9	427.0	414.8	404.5	402.7	406.2	407.9	409.6	413.1
55°	387.1	380.2	366.4	354.3	350.9	352.7	350.9	350.9	349.1
57.5°	342.2	335.3	321.5	307.7	302.5	300.7	295.6	293.8	292.1
60°	302.5	293.8	280.0	264.4	257.5	250.6	242.0	236.8	236.8
62.5°	264.4	255.8	240.3	226.4	216.0	203.9	190.1	183.2	183.2
65°	228.2	221.3	203.9	188.5	174.5	159.0	143.5	140.1	143.5
67.5°	193.6	186.7	169.4	153.9	136.5	117.6	103.7	103.7	107.1
70°	162.4	155.5	140.1	121.0	102.0	83.0	72.6	72.6	72.6
72.5°	133.0	126.2	108.9	91.6	72.6	53.6	48.4	50.2	48.4
75°	103.7	98.6	83.0	64.0	46.7	32.8	31.2	29.4	31.2
77.5°	77.8	72.6	58.7	41.5	25.9	19.0	17.2	17.2	17.2
80°	53.6	48.4	38.0	24.3	13.8	8.7	8.7	8.7	8.7
82.5°	32.8	27.7	20.7	12.1	5.2	5.2	5.2	5.2	5.2
85°	15.6	12.1	8.7	3.4	1.8	1.8	1.8	1.8	1.8
87.5°	3.4	3.4	1.8	1.8	0.0	1.8	1.8	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)