

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: P582243

Luminaire Tested: **HC630D010-HM63040935-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582243
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-HM63040935-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3043.5 lumens
Efficiency: N/A
Efficacy: 108.7 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

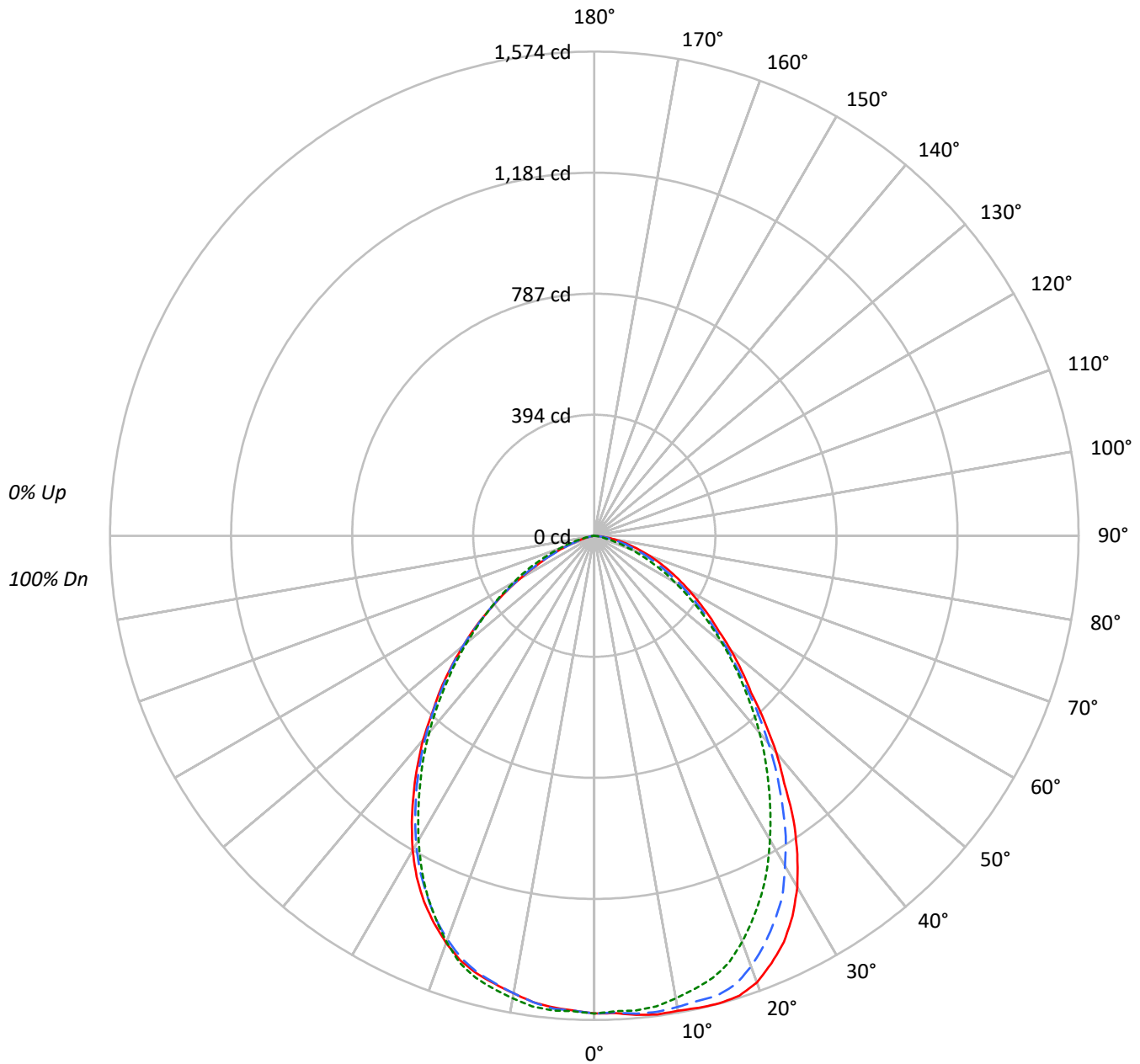
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101	108	105	102	99		101	98	96		97	95	93		93	92	90
2	103	96	90	85	100	94	89	84		91	86	83		87	84	81		85	82	79
3	95	86	79	74	93	84	78	73		82	76	72		79	74	70		77	73	69
4	88	78	70	64	86	76	69	64		74	68	63		72	66	62		70	65	61
5	82	70	62	57	80	69	62	56		67	61	56		65	60	55		64	59	55
6	76	64	56	50	74	63	56	50		61	55	50		60	54	49		58	53	49
7	71	59	51	45	69	58	50	45		56	50	45		55	49	44		54	48	44
8	66	54	46	41	65	53	46	41		52	45	41		51	45	40		50	44	40
9	62	50	42	37	61	49	42	37		48	42	37		47	41	37		46	41	37
10	59	46	39	34	57	46	39	34		45	38	34		44	38	34		43	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	85147	85147	85147
5°	86033	85246	84685
10°	87256	84991	84083
15°	89302	84450	83650
20°	90139	81942	82181
25°	88166	77817	79299
30°	83500	72290	74739
35°	75610	66073	68529
40°	65852	59733	61909
45°	55874	52866	54765
50°	49474	46182	47393
55°	43583	39502	39301
60°	39054	33254	30579
65°	34855	26670	21922
70°	30662	19250	13704
75°	25862	11628	7752
80°	19920	5146	3220
85°	11511	1258	1258



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	4.8
10°-20°	423.7	13.9
20°-30°	612.5	20.1
30°-40°	644.5	21.2
40°-50°	541.8	17.8
50°-60°	380.3	12.5
60°-70°	209.2	6.9
70°-80°	74.3	2.4
80°-90°	9.7	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°	1183.7	38.9
0°-40°	1828.2	60.1
0°-60°	2750.3	90.4
0°-90°	3043.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3043.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1553	1553	1553	1553	1553	
5°	1563	1559	1549	1543	1539	149
15°	1574	1547	1488	1470	1474	444
25°	1458	1384	1286	1289	1311	667
35°	1130	1065	987	1008	1024	700
45°	721	700	682	698	706	565
55°	456	432	413	413	411	410
65°	269	240	206	169	169	267
75°	122	98	55	37	37	131
85°	18	10	2	2	2	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°	1553.2	1553.2	1553.2	1553.2	1553.2	1553.2	1553.2	1553.2	1553.2
2.5°	1553.2	1553.2	1551.2	1551.2	1547.1	1547.1	1545.1	1545.1	1545.1
5°	1563.4	1563.4	1559.4	1553.2	1549.1	1543.1	1543.1	1541.1	1538.9
7.5°	1569.5	1567.5	1561.4	1553.2	1543.1	1532.9	1528.8	1530.8	1528.8
10°	1567.5	1563.4	1555.2	1538.9	1526.8	1512.5	1510.5	1508.5	1510.5
12.5°	1571.5	1565.4	1549.1	1528.8	1508.5	1492.2	1490.1	1490.1	1492.2
15°	1573.5	1567.5	1547.1	1516.6	1488.0	1471.7	1469.7	1471.7	1473.9
17.5°	1567.5	1559.4	1528.8	1488.0	1455.5	1439.2	1439.2	1443.3	1447.4
20°	1545.1	1532.9	1490.1	1441.3	1404.6	1392.4	1396.5	1404.6	1408.7
22.5°	1504.3	1490.1	1441.3	1386.3	1347.6	1337.4	1347.6	1357.8	1361.9
25°	1457.6	1441.3	1384.2	1327.3	1286.5	1274.4	1288.6	1304.8	1311.0
27.5°	1394.5	1376.1	1323.2	1258.1	1217.3	1211.2	1227.5	1245.8	1249.9
30°	1319.1	1298.7	1239.8	1178.7	1142.0	1140.0	1158.3	1174.6	1180.7
32.5°	1227.5	1209.2	1158.3	1097.2	1064.6	1064.6	1082.9	1097.2	1103.4
35°	1129.8	1109.5	1064.6	1013.7	987.3	989.4	1007.7	1017.8	1024.0
37.5°	1013.7	1007.7	973.1	930.3	912.0	916.0	930.3	938.5	944.5
40°	920.2	903.9	881.4	846.8	834.7	838.7	853.0	861.1	865.1
42.5°	818.4	808.2	789.9	765.4	757.3	763.3	775.6	781.6	779.6
45°	720.7	718.6	700.3	686.1	681.9	690.1	698.2	704.4	706.4
47.5°	649.4	641.2	624.9	614.8	610.7	618.9	627.0	631.0	631.0
50°	580.1	572.0	555.7	545.5	541.5	549.7	555.7	559.8	555.7
52.5°	510.9	502.8	488.6	476.3	474.3	478.3	480.5	482.5	486.5
55°	456.0	447.9	431.6	417.3	413.3	415.3	413.3	413.3	411.2
57.5°	403.1	394.9	378.6	362.4	356.2	354.2	348.1	346.1	344.0
60°	356.2	346.1	329.8	311.4	303.3	295.2	285.0	278.9	278.9
62.5°	311.4	301.3	283.0	266.7	254.4	240.2	223.9	215.8	215.8
65°	268.7	260.5	240.2	221.9	205.6	187.3	169.0	164.9	169.0
67.5°	228.1	219.8	199.5	181.2	160.9	138.4	122.1	122.1	126.2
70°	191.3	183.2	164.9	142.4	120.1	97.7	85.5	85.5	85.5
72.5°	156.7	148.6	128.3	107.8	85.5	63.1	57.0	59.1	57.0
75°	122.1	116.0	97.7	75.3	54.9	38.6	36.6	34.6	36.6
77.5°	91.6	85.5	69.2	48.9	30.6	22.4	20.3	20.3	20.3
80°	63.1	57.0	44.8	28.5	16.3	10.2	10.2	10.2	10.2
82.5°	38.6	32.6	24.4	14.3	6.1	6.1	6.1	6.1	6.1
85°	18.3	14.3	10.2	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)