

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: P582044

Luminaire Tested: **HC625D010-HM60525840-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582044
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC625D010-HM60525840-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2892.5 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

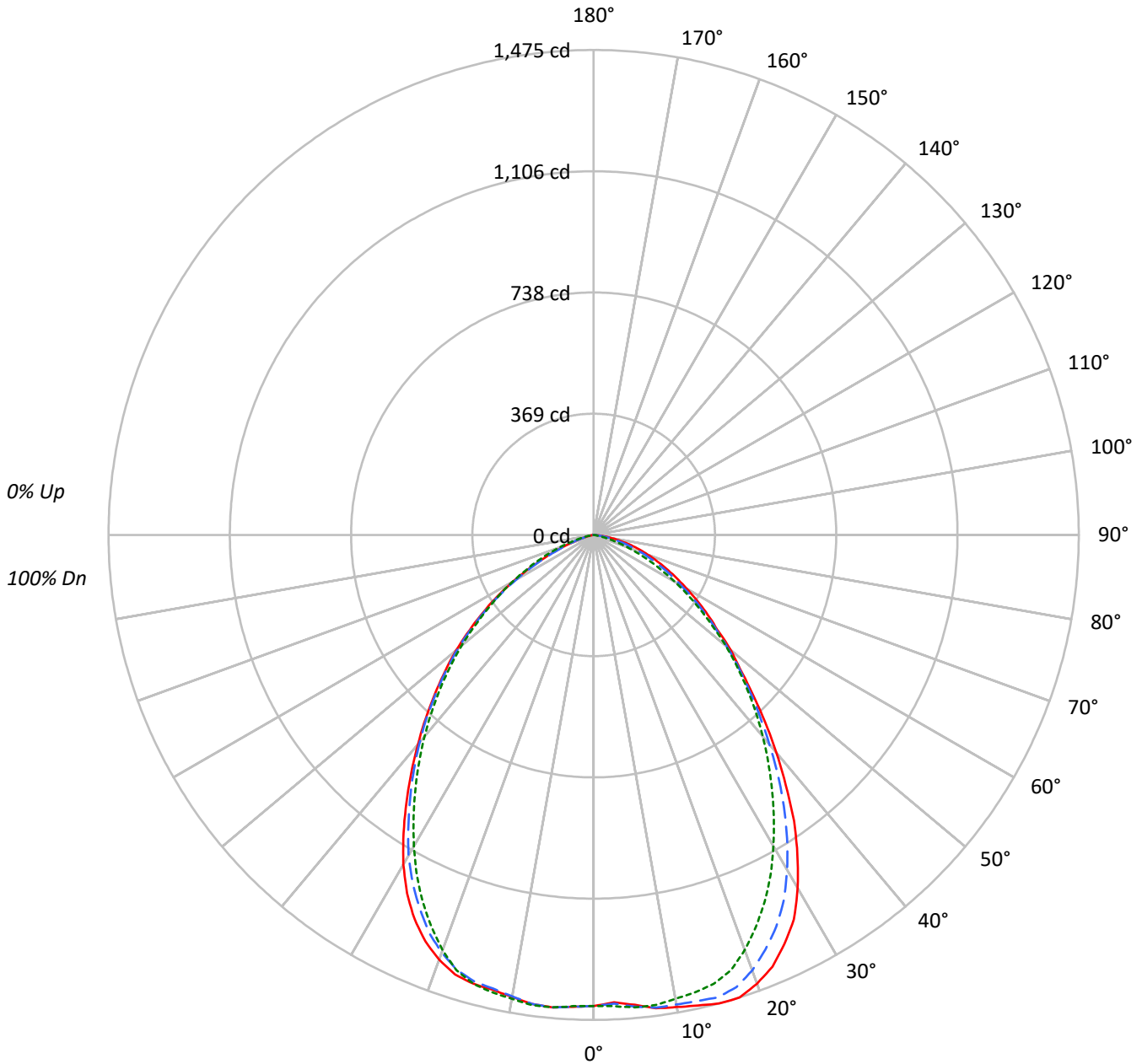
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	92	90	88			88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77			77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68			68
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60			60
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	62	55	50	60	54	49	58	53	49	47			47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	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°	78541	78541	78541
5°	78951	79380	79380
10°	81161	79752	79430
15°	83735	80210	80210
20°	84713	78378	80186
25°	83019	74448	77974
30°	78531	69188	73239
35°	71066	63269	66388
40°	61823	57236	59461
45°	52827	51021	52827
50°	46361	44698	46532
55°	40457	37667	39148
60°	35765	31291	30864
65°	31728	24672	21144
70°	28002	17439	12759
75°	23850	9870	6164
80°	17774	3031	1831
85°	9749	1195	1195



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.4	4.8
10°-20°	402.1	13.9
20°-30°	587.3	20.3
30°-40°	615.9	21.3
40°-50°	518.9	17.9
50°-60°	363.5	12.6
60°-70°	194.9	6.7
70°-80°	65.4	2.3
80°-90°	7.1	0.2
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°	1126.8	39.0
0°-40°	1742.7	60.2
0°-60°	2625.1	90.8
0°-90°	2892.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2892.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1433	1433	1433	1433	1433	
5°	1435	1440	1442	1442	1442	138
15°	1475	1456	1413	1406	1413	416
25°	1372	1314	1231	1252	1289	629
35°	1062	1008	945	973	992	659
45°	681	670	658	676	681	531
55°	423	410	394	402	410	381
65°	245	223	190	157	163	244
75°	113	87	47	29	29	119
85°	16	8	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°	1432.7	1432.7	1432.7	1432.7	1432.7	1432.7	1432.7	1432.7	1432.7
2.5°	1423.0	1423.0	1426.9	1430.8	1434.7	1434.7	1436.6	1438.6	1436.6
5°	1434.7	1434.7	1440.4	1442.5	1442.5	1440.4	1442.5	1442.5	1442.5
7.5°	1452.1	1448.2	1450.2	1446.3	1442.5	1440.4	1438.6	1438.6	1438.6
10°	1458.0	1454.1	1450.2	1442.5	1432.7	1426.9	1424.9	1426.9	1426.9
12.5°	1465.8	1461.9	1452.1	1436.6	1424.9	1415.3	1413.3	1417.1	1417.1
15°	1475.4	1471.5	1456.0	1430.8	1413.3	1403.6	1405.5	1409.4	1413.3
17.5°	1475.4	1467.6	1442.5	1409.4	1388.1	1378.4	1386.2	1395.8	1401.7
20°	1452.1	1444.3	1409.4	1368.7	1343.5	1337.6	1351.2	1368.7	1374.5
22.5°	1421.0	1405.5	1364.8	1316.3	1289.1	1289.1	1308.5	1329.8	1337.6
25°	1372.5	1360.9	1314.3	1258.0	1230.8	1228.9	1252.1	1281.3	1289.1
27.5°	1318.2	1302.6	1252.1	1194.0	1164.8	1166.8	1192.0	1221.2	1228.9
30°	1240.6	1221.2	1176.4	1120.2	1093.0	1100.8	1125.9	1147.4	1157.0
32.5°	1153.1	1135.7	1094.9	1042.5	1019.2	1027.0	1048.4	1067.8	1075.6
35°	1061.9	1042.5	1007.5	960.9	945.4	953.2	972.6	988.1	992.0
37.5°	959.0	945.4	920.2	883.4	871.7	881.4	896.9	906.7	910.6
40°	863.9	852.3	830.9	803.7	799.8	807.6	823.1	829.0	830.9
42.5°	770.7	761.1	747.4	728.0	728.0	735.8	749.4	753.3	755.2
45°	681.4	675.6	669.7	654.2	658.1	667.8	675.6	681.4	681.4
47.5°	603.8	605.7	597.9	586.3	590.2	599.9	605.7	611.6	611.6
50°	543.6	537.8	530.0	518.4	524.1	531.9	539.7	543.6	545.6
52.5°	473.6	471.8	466.0	452.3	456.2	460.1	467.9	473.6	475.6
55°	423.3	417.4	409.6	394.1	394.1	398.0	401.8	405.7	409.6
57.5°	374.6	368.9	357.2	339.7	337.8	337.8	335.8	339.7	345.6
60°	326.2	324.2	306.7	291.2	285.4	279.5	271.8	273.8	281.5
62.5°	283.4	279.5	264.0	244.6	232.9	223.3	213.5	211.6	219.4
65°	244.6	240.7	223.3	203.9	190.2	172.8	157.3	157.3	163.0
67.5°	209.6	201.9	186.3	165.0	147.6	126.2	110.6	114.5	116.5
70°	174.7	168.9	151.5	130.1	108.8	87.3	77.7	79.6	79.6
72.5°	143.7	136.0	118.4	97.1	75.7	56.3	52.4	50.5	50.5
75°	112.6	104.9	87.3	66.0	46.6	33.0	29.1	29.1	29.1
77.5°	81.6	75.7	60.1	40.7	25.2	15.5	13.5	11.7	11.7
80°	56.3	50.5	36.8	21.3	9.6	5.8	5.8	5.8	5.8
82.5°	33.0	27.2	17.4	9.6	3.9	1.9	1.9	1.9	1.9
85°	15.5	11.7	7.8	3.9	1.9	1.9	1.9	1.9	1.9
87.5°	1.9	1.9	1.9	0.0	0.0	0.0	0.0	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)