

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: P582251

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582251
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-HM63040935-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2917.3 lumens
Efficiency: N/A
Efficacy: 104.2 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

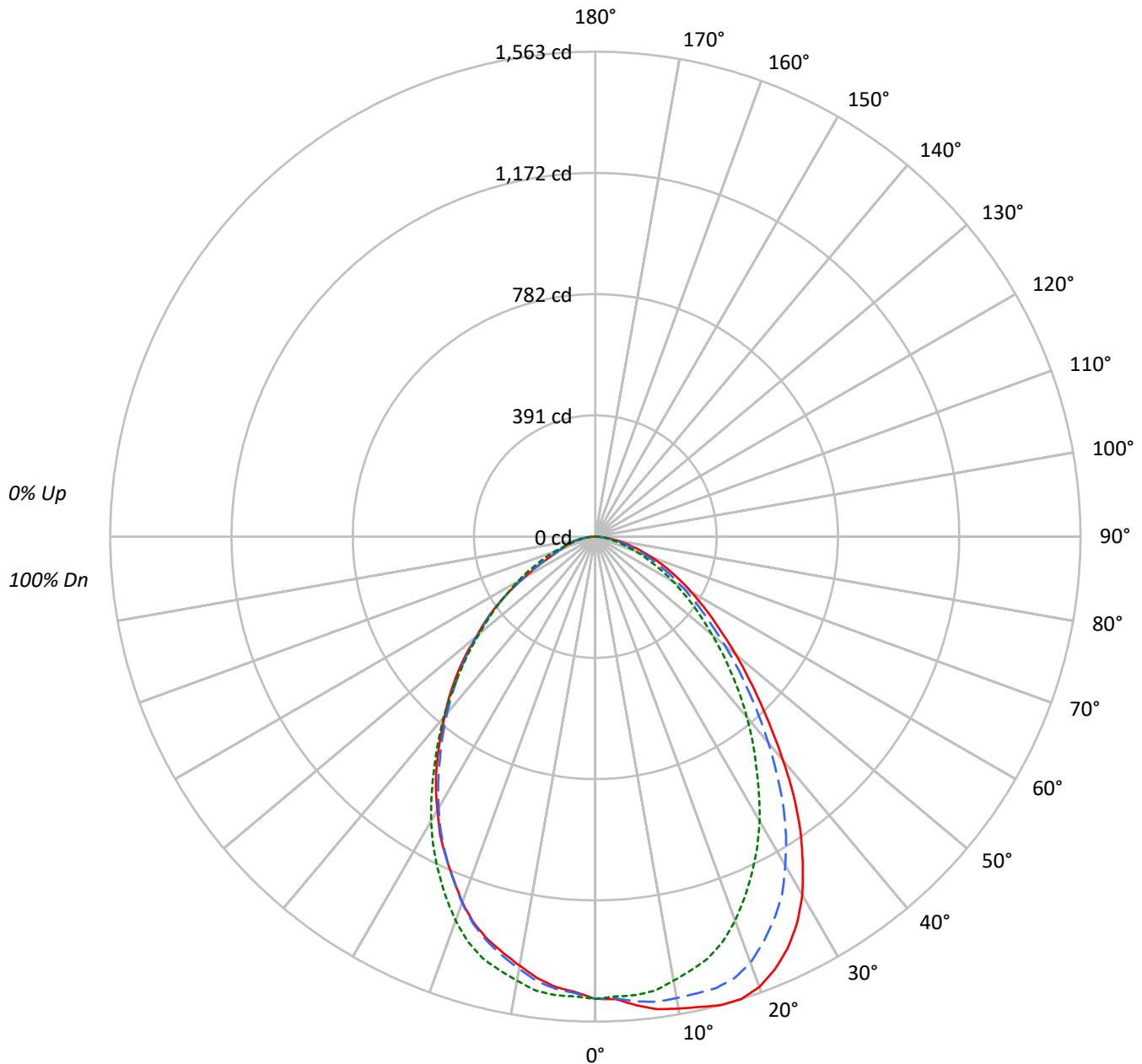
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	107	103	100	108	104	101	98		100	97	95			96	94	92			93
2	102	95	89	84	100	93	88	83		90	85	81			87	83	80			84
3	94	85	78	72	92	84	77	72		81	75	71			78	73	69			76
4	87	77	69	63	85	75	68	63		73	67	62			71	65	61			69
5	81	70	61	56	79	68	61	55		66	60	55			65	59	54			63
6	75	63	55	49	74	62	55	49		61	54	49			59	53	48			58
7	70	58	50	44	69	57	50	44		56	49	44			54	48	44			53
8	66	53	46	40	64	53	45	40		51	45	40			50	44	40			49
9	62	49	42	37	60	49	42	37		48	41	36			47	41	36			46
10	58	46	38	34	57	45	38	33		44	38	33			43	37	33			43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	81666	81666	81666
5°	83430	81636	80184
10°	85981	80888	78166
15°	88701	79807	76226
20°	90110	76814	73133
25°	88626	72258	68937
30°	84380	66985	64409
35°	76948	60465	59521
40°	67276	54323	54030
45°	57897	47803	48912
50°	50335	41653	42515
55°	43955	36567	36959
60°	39043	31675	29011
65°	34842	26670	22181
70°	30662	21863	18593
75°	26285	17241	17686
80°	21215	14775	17332
85°	14089	12769	15347



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.0	4.8
10°-20°	401.5	13.8
20°-30°	573.2	19.6
30°-40°	600.4	20.6
40°-50°	505.5	17.3
50°-60°	359.8	12.3
60°-70°	210.6	7.2
70°-80°	99.7	3.4
80°-90°	25.6	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°	1115.7	38.2
0°-40°	1716.1	58.8
0°-60°	2581.4	88.5
0°-90°	2917.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2917.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1490	1490	1490	1490	1490	
5°	1516	1504	1484	1463	1457	146
15°	1563	1506	1406	1349	1343	441
25°	1465	1361	1195	1138	1140	671
35°	1150	1054	904	873	889	714
45°	747	692	617	619	631	580
55°	460	421	383	383	387	415
65°	269	238	206	173	171	268
75°	124	104	81	79	84	133
85°	22	18	20	24	24	29
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°	1489.7	1489.7	1489.7	1489.7	1489.7	1489.7	1489.7	1489.7	1489.7
2.5°	1491.7	1491.7	1489.7	1487.7	1483.5	1477.5	1473.4	1469.2	1469.2
5°	1516.1	1512.1	1503.8	1493.7	1483.5	1471.4	1463.2	1457.1	1457.1
7.5°	1536.4	1528.3	1512.1	1493.7	1475.4	1459.1	1444.9	1436.8	1434.8
10°	1544.6	1534.4	1510.0	1481.5	1453.1	1430.6	1414.3	1404.2	1404.2
12.5°	1552.7	1540.6	1508.0	1467.2	1430.6	1400.2	1383.9	1375.7	1373.7
15°	1562.9	1546.7	1506.0	1455.1	1406.2	1371.6	1349.3	1343.1	1343.1
17.5°	1562.9	1542.6	1491.7	1428.6	1367.6	1328.9	1308.5	1302.4	1304.5
20°	1544.6	1522.2	1461.2	1383.9	1316.7	1275.9	1255.6	1251.5	1253.6
22.5°	1510.0	1483.5	1414.3	1331.0	1257.6	1214.9	1196.6	1196.6	1194.6
25°	1465.2	1436.8	1361.4	1273.9	1194.6	1151.8	1137.6	1139.7	1139.7
27.5°	1406.2	1377.7	1302.4	1208.9	1129.4	1086.7	1076.5	1080.6	1082.7
30°	1333.0	1302.4	1223.0	1131.5	1058.2	1015.5	1009.3	1015.5	1017.5
32.5°	1243.5	1221.0	1143.7	1050.1	980.9	944.3	942.3	948.3	956.4
35°	1149.8	1125.4	1054.2	968.7	903.5	873.1	873.1	883.2	889.4
37.5°	1048.1	1023.6	958.5	887.2	832.3	803.9	807.9	818.0	820.2
40°	940.1	921.8	866.9	805.9	759.1	736.7	742.8	753.0	755.0
42.5°	838.5	822.2	777.4	722.4	687.8	671.5	679.8	691.9	696.0
45°	746.8	728.5	691.9	645.2	616.6	608.5	618.6	626.8	630.9
47.5°	663.5	647.2	616.6	573.9	553.5	549.4	559.7	563.7	567.7
50°	590.2	573.9	543.4	504.7	488.4	488.4	496.5	500.6	498.5
52.5°	518.9	504.7	476.2	443.6	433.5	433.5	439.6	441.6	445.6
55°	459.9	445.6	421.3	390.7	382.6	378.6	382.6	382.6	386.7
57.5°	405.0	392.7	370.4	341.8	331.7	327.7	325.7	323.5	327.7
60°	356.1	346.0	321.5	297.1	288.9	278.8	270.6	262.5	264.6
62.5°	311.4	301.2	278.8	254.3	246.2	232.0	221.9	211.6	215.7
65°	268.6	258.5	238.2	217.7	205.6	189.3	173.0	166.8	171.0
67.5°	230.0	221.9	201.4	181.1	171.0	152.7	136.4	136.4	138.4
70°	191.3	183.1	166.8	148.5	136.4	120.1	113.9	116.0	116.0
72.5°	156.7	150.6	134.4	118.1	105.8	95.6	95.6	97.7	99.8
75°	124.1	120.1	103.8	89.5	81.4	75.3	79.4	81.4	83.5
77.5°	95.6	89.5	77.3	67.2	61.0	63.1	67.2	69.2	71.2
80°	67.2	65.2	54.9	48.9	46.8	48.9	52.9	54.9	54.9
82.5°	42.7	40.7	34.6	32.6	32.6	34.6	38.6	38.6	38.6
85°	22.4	20.3	18.3	18.3	20.3	22.4	24.4	24.4	24.4
87.5°	8.1	6.1	8.1	8.1	10.2	10.2	10.2	10.2	10.2
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)