

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: P582177

Luminaire Tested: **HC630D010-HM63040835-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582177
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC630D010-HM63040835-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2887.7 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

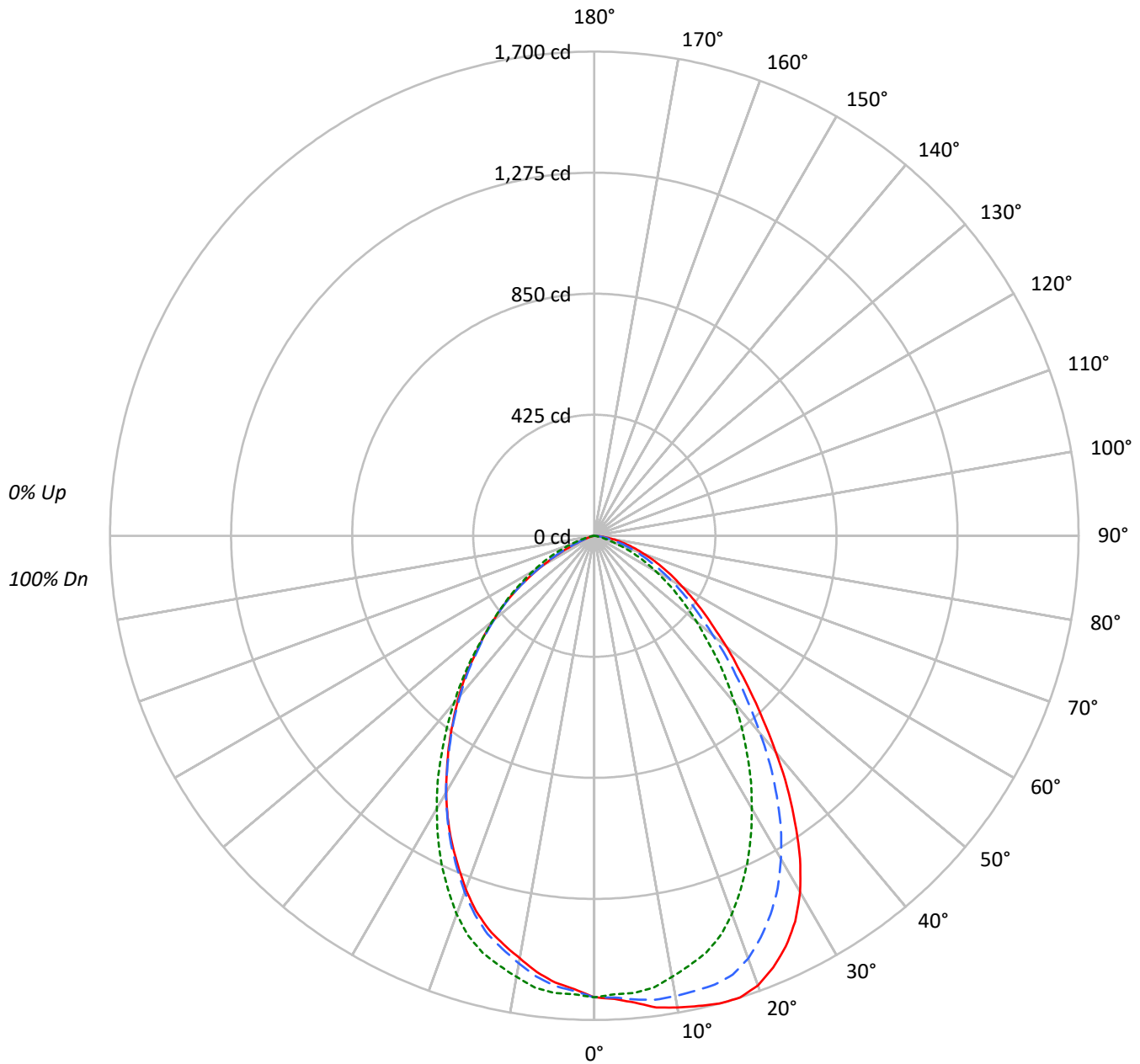
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	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	100		
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89		
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78		
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69		
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61		
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54		
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49		
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44		
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40		
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37		
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	88836	88836	88836
5°	90551	88669	86661
10°	93630	87540	83861
15°	96493	86016	81232
20°	97991	82432	76983
25°	96223	76789	71684
30°	91470	69973	65789
35°	82215	62533	59327
40°	70947	54803	53006
45°	60076	47175	45943
50°	51512	39845	39453
55°	44653	33547	32238
60°	38977	27235	22981
65°	34297	20988	12712
70°	29604	13881	6219
75°	25099	6757	2415
80°	19447	2904	1421
85°	11448	1447	1447



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.9	5.3
10°-20°	432.4	15.0
20°-30°	609.0	21.1
30°-40°	622.2	21.5
40°-50°	501.6	17.4
50°-60°	336.5	11.7
60°-70°	170.3	5.9
70°-80°	54.4	1.9
80°-90°	8.4	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°	1194.3	41.4
0°-40°	1816.5	62.9
0°-60°	2654.6	91.9
0°-90°	2887.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2887.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1620	1620	1620	1620	1620	
5°	1646	1634	1611	1586	1575	158
15°	1700	1632	1516	1447	1431	480
25°	1591	1465	1270	1192	1185	728
35°	1228	1117	934	882	886	764
45°	775	713	608	588	593	603
55°	467	415	351	335	337	420
65°	264	219	162	107	98	264
75°	118	84	32	11	11	127
85°	18	9	2	2	2	24
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°	1620.5	1620.5	1620.5	1620.5	1620.5	1620.5	1620.5	1620.5	1620.5
2.5°	1627.3	1625.0	1622.7	1618.1	1611.3	1604.4	1599.9	1595.4	1593.1
5°	1645.5	1640.9	1634.2	1625.0	1611.3	1595.4	1586.2	1577.1	1574.8
7.5°	1670.5	1661.5	1643.2	1622.7	1599.9	1577.1	1561.2	1552.1	1545.2
10°	1682.0	1666.0	1640.9	1606.8	1572.6	1545.2	1524.7	1511.0	1506.5
12.5°	1691.1	1672.8	1636.4	1590.8	1545.2	1508.7	1486.0	1474.6	1470.0
15°	1700.2	1682.0	1631.8	1572.6	1515.6	1472.3	1447.3	1435.8	1431.3
17.5°	1700.2	1675.2	1615.9	1540.7	1472.3	1419.9	1394.8	1383.4	1381.1
20°	1679.7	1652.4	1579.5	1490.5	1413.0	1353.8	1331.0	1324.2	1319.6
22.5°	1640.9	1609.1	1527.0	1426.7	1342.4	1285.4	1260.3	1255.8	1251.2
25°	1590.8	1558.9	1465.4	1358.3	1269.5	1212.4	1192.0	1187.5	1185.1
27.5°	1527.0	1492.8	1394.8	1285.4	1189.7	1135.0	1116.7	1116.7	1114.4
30°	1445.0	1406.2	1310.5	1201.1	1105.4	1055.2	1041.6	1041.6	1039.3
32.5°	1344.6	1305.9	1219.3	1114.4	1023.4	970.9	959.5	964.0	961.8
35°	1228.5	1196.5	1116.7	1014.2	934.4	886.5	882.0	886.5	886.5
37.5°	1112.2	1082.6	1014.2	925.3	850.1	806.9	806.9	813.6	811.4
40°	991.4	968.6	904.8	827.3	765.8	736.1	731.6	738.4	740.7
42.5°	877.5	859.2	804.5	740.7	686.1	656.3	663.2	667.7	670.0
45°	774.9	756.7	713.4	647.3	608.5	588.0	588.0	594.9	592.6
47.5°	683.7	670.0	626.7	563.0	528.7	519.6	524.2	528.7	528.7
50°	604.0	583.4	542.4	492.2	467.2	455.9	460.4	462.6	462.6
52.5°	528.7	515.1	474.1	428.5	405.7	398.8	398.8	401.2	401.2
55°	467.2	451.2	414.8	369.2	351.0	341.8	335.1	332.8	337.3
57.5°	407.9	394.3	360.1	316.7	296.3	287.1	273.5	269.0	273.5
60°	355.5	344.1	310.0	269.0	248.4	230.2	214.3	205.1	209.6
62.5°	310.0	296.3	262.1	227.9	205.1	184.7	159.6	145.9	152.7
65°	264.4	253.0	218.8	184.7	161.8	136.7	107.1	98.0	98.0
67.5°	223.3	212.0	180.0	150.4	123.1	93.5	66.1	63.8	66.1
70°	184.7	173.2	145.9	116.3	86.6	57.0	38.8	38.8	38.8
72.5°	152.7	139.0	113.9	84.3	54.7	29.6	20.6	22.8	22.8
75°	118.5	107.1	84.3	57.0	31.9	13.7	11.4	11.4	11.4
77.5°	88.9	79.8	59.2	36.5	15.9	4.5	4.5	4.5	4.5
80°	61.6	52.4	38.8	22.8	9.2	4.5	4.5	4.5	4.5
82.5°	36.5	31.9	22.8	11.4	4.5	2.3	2.3	2.3	2.3
85°	18.2	15.9	9.2	4.5	2.3	2.3	2.3	2.3	2.3
87.5°	4.5	4.5	2.3	2.3	0.0	2.3	2.3	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)