

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: P582143

Luminaire Tested: **HC630D010-HM63040827-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582143  
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-HM63040827-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2933.6 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

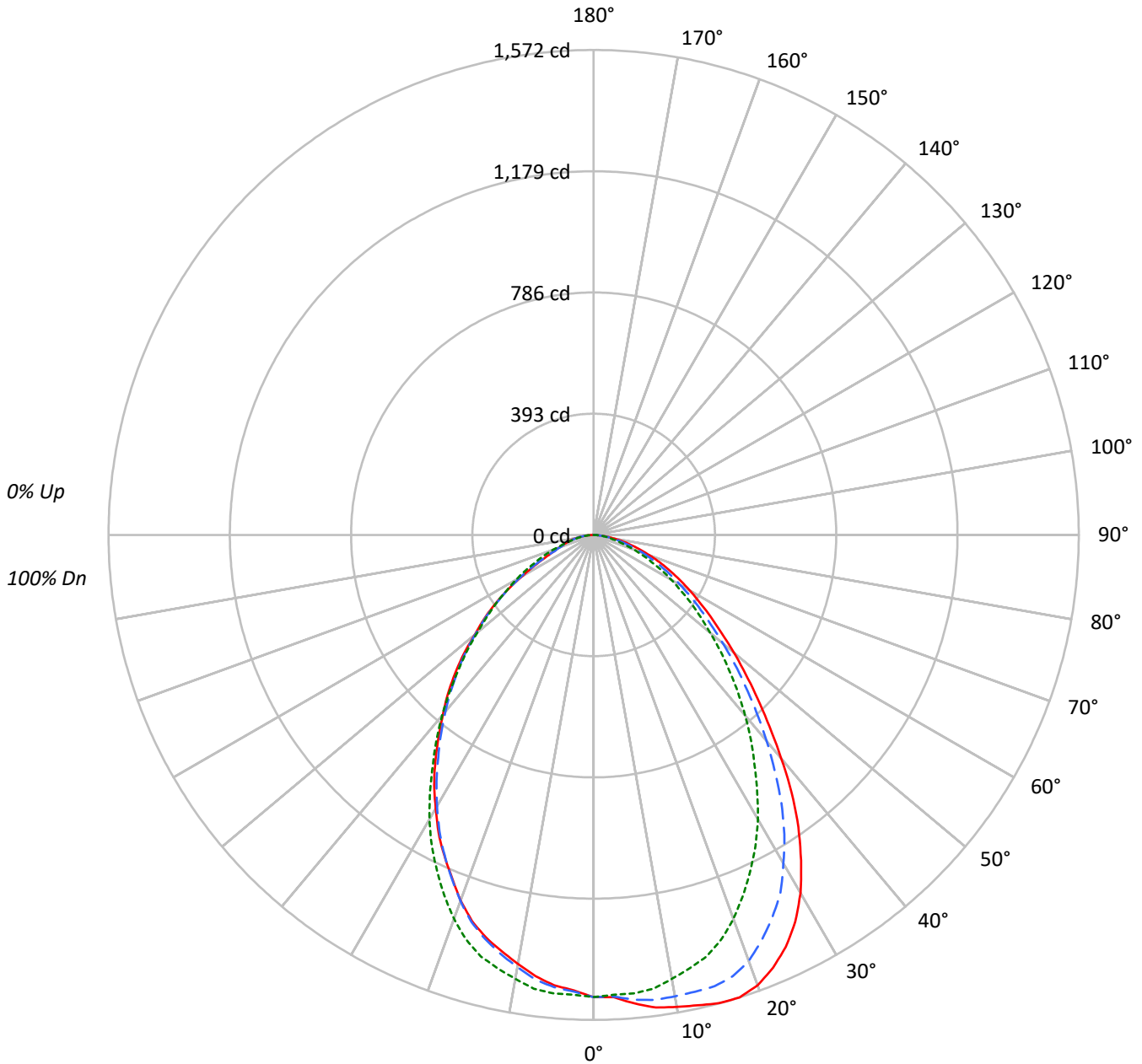
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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					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	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76				76				
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66				66				
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58				58				
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52				52				
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46				46				
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42				42				
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38				38				
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34				34				
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31				31				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	82121	82121	82121
5°	83904	82093	80629
10°	86466	81339	78606
15°	89195	80256	76658
20°	90617	77246	73541
25°	89122	72657	69319
30°	84855	67365	64776
35°	77383	60806	59843
40°	67662	54624	54330
45°	58231	48075	49191
50°	50608	41892	42762
55°	44204	36778	37160
60°	39262	31861	29164
65°	35036	26799	22298
70°	30839	21975	18689
75°	26434	17326	17771
80°	21310	14869	17458
85°	14152	12894	15473



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.8	4.8
10°-20°	403.8	13.8
20°-30°	576.4	19.6
30°-40°	603.8	20.6
40°-50°	508.3	17.3
50°-60°	361.8	12.3
60°-70°	211.8	7.2
70°-80°	100.2	3.4
80°-90°	25.8	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°	1122.0	38.2
0°-40°	1725.7	58.8
0°-60°	2595.9	88.5
0°-90°	2933.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2933.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1498	1498	1498	1498	1498	
5°	1525	1512	1492	1471	1465	146
15°	1572	1514	1414	1357	1351	444
25°	1473	1369	1201	1144	1146	674
35°	1156	1060	909	878	894	718
45°	751	696	620	622	634	583
55°	462	424	385	385	389	417
65°	270	240	207	174	172	269
75°	125	104	82	80	84	134
85°	22	18	20	25	25	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°	1498.0	1498.0	1498.0	1498.0	1498.0	1498.0	1498.0	1498.0	1498.0
2.5°	1500.0	1500.0	1498.0	1496.0	1491.8	1485.8	1481.6	1477.6	1477.6
5°	1524.7	1520.5	1512.3	1502.1	1491.8	1479.6	1471.4	1465.2	1465.2
7.5°	1545.1	1536.9	1520.5	1502.1	1483.6	1467.3	1453.0	1444.8	1442.7
10°	1553.3	1543.0	1518.5	1489.8	1461.2	1438.7	1422.3	1412.1	1412.1
12.5°	1561.4	1549.1	1516.5	1475.5	1438.7	1408.0	1391.6	1383.4	1381.4
15°	1571.6	1555.3	1514.4	1463.2	1414.1	1379.4	1356.8	1350.7	1350.7
17.5°	1571.6	1551.2	1500.0	1436.5	1375.2	1336.3	1315.9	1309.7	1311.8
20°	1553.3	1530.7	1469.4	1391.6	1324.1	1283.2	1262.7	1258.6	1260.6
22.5°	1518.5	1491.8	1422.3	1338.3	1264.7	1221.7	1203.3	1203.3	1201.2
25°	1473.4	1444.8	1369.1	1281.0	1201.2	1158.3	1143.9	1146.0	1146.0
27.5°	1414.1	1385.4	1309.7	1215.6	1135.7	1092.8	1082.6	1086.6	1088.8
30°	1340.5	1309.7	1229.9	1137.9	1064.2	1021.2	1015.0	1021.2	1023.3
32.5°	1250.4	1227.9	1150.1	1056.0	986.4	949.5	947.5	953.7	961.8
35°	1156.3	1131.7	1060.1	974.1	908.6	878.0	878.0	888.2	894.2
37.5°	1053.9	1029.3	963.9	892.2	837.1	808.4	812.4	822.7	824.7
40°	945.5	927.1	871.8	810.4	763.3	740.9	746.9	757.2	759.2
42.5°	843.1	826.7	781.8	726.5	691.6	675.4	683.6	695.8	699.8
45°	751.1	732.7	695.8	648.7	620.1	611.9	622.1	630.3	634.5
47.5°	667.1	650.7	620.1	577.1	556.7	552.5	562.8	566.9	571.0
50°	593.4	577.1	546.3	507.5	491.2	491.2	499.4	503.4	501.4
52.5°	521.9	507.5	478.8	446.1	435.9	435.9	442.1	444.1	448.1
55°	462.5	448.1	423.6	393.0	384.8	380.6	384.8	384.8	388.8
57.5°	407.2	395.0	372.4	343.9	333.5	329.5	327.5	325.4	329.5
60°	358.1	347.9	323.3	298.8	290.6	280.4	272.2	264.0	266.0
62.5°	313.1	302.8	280.4	255.8	247.7	233.3	223.1	212.8	216.9
65°	270.1	259.9	239.5	219.0	206.6	190.4	174.0	167.8	171.9
67.5°	231.3	223.1	202.6	182.2	171.9	153.5	137.1	137.1	139.1
70°	192.4	184.2	167.8	149.3	137.1	120.7	114.6	116.6	116.6
72.5°	157.5	151.5	135.1	118.7	106.4	96.2	96.2	98.2	100.2
75°	124.8	120.7	104.4	90.0	81.8	75.7	79.8	81.8	83.9
77.5°	96.2	90.0	77.8	67.5	61.4	63.5	67.5	69.6	71.6
80°	67.5	65.5	55.3	49.1	47.1	49.1	53.1	55.3	55.3
82.5°	42.9	40.9	34.8	32.7	32.7	34.8	38.9	38.9	38.9
85°	22.5	20.5	18.4	18.4	20.5	22.5	24.6	24.6	24.6
87.5°	8.2	6.2	8.2	8.2	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)