

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: P582233

Luminaire Tested: **HC630D010-HM63040930-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582233
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-HM63040930-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2958.7 lumens
Efficiency: N/A
Efficacy: 105.7 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

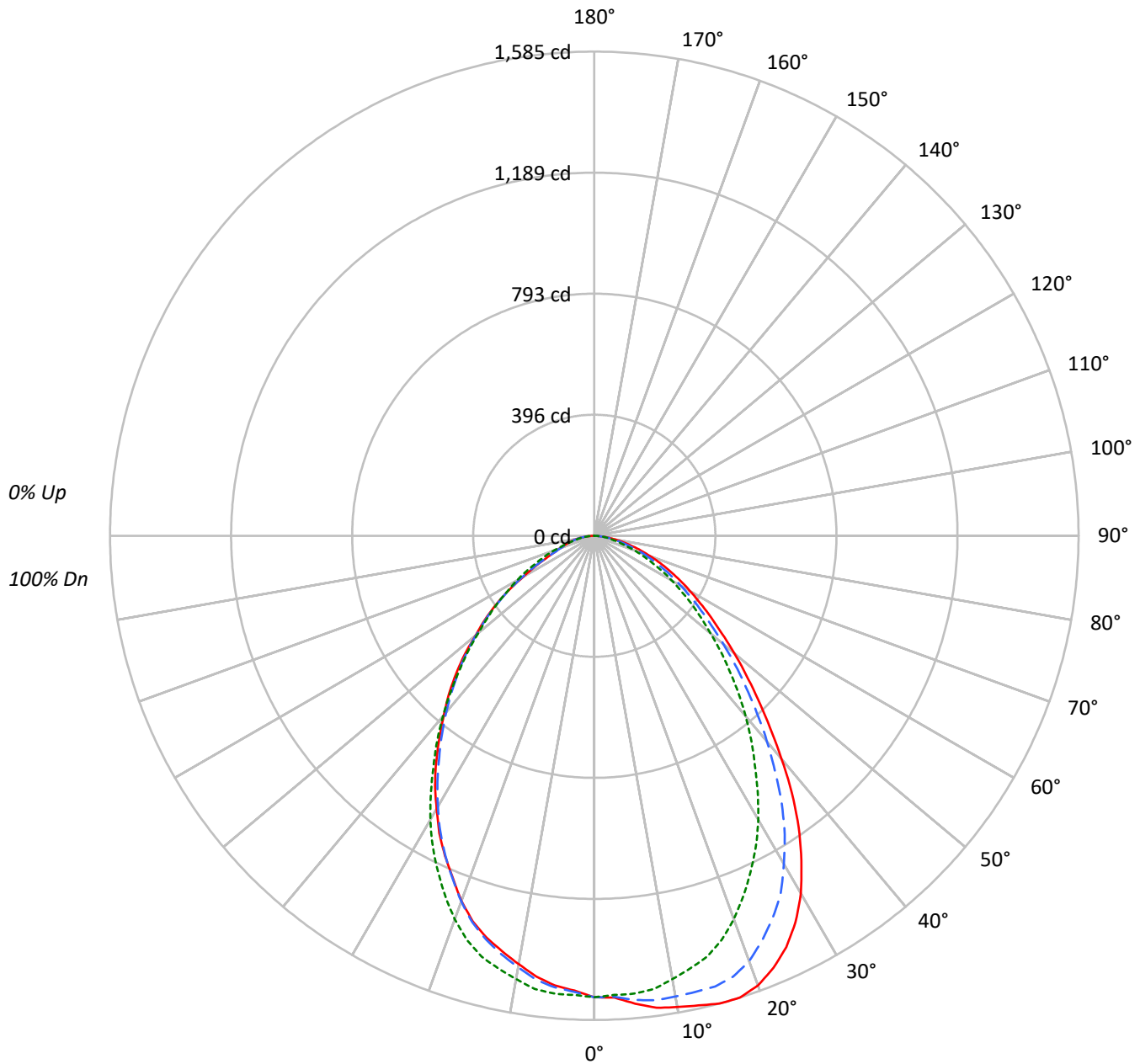
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	82817	82817	82817
5°	84613	82797	81323
10°	87201	82029	79274
15°	89961	80943	77310
20°	91387	77905	74171
25°	89884	73280	69911
30°	85576	67935	65320
35°	78046	61328	60365
40°	68242	55096	54796
45°	58727	48486	49602
50°	51043	42242	43129
55°	44577	37084	37475
60°	39602	32136	29427
65°	35335	27033	22493
70°	31095	22167	18849
75°	26667	17474	17940
80°	21499	14964	17616
85°	14278	13020	15536



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.0	4.8
10°-20°	407.2	13.8
20°-30°	581.3	19.6
30°-40°	608.9	20.6
40°-50°	512.7	17.3
50°-60°	364.9	12.3
60°-70°	213.6	7.2
70°-80°	101.1	3.4
80°-90°	26.0	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°	1131.6	38.2
0°-40°	1740.5	58.8
0°-60°	2618.0	88.5
0°-90°	2958.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2958.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1511	1511	1511	1511	1511	
5°	1538	1525	1505	1484	1478	148
15°	1585	1527	1426	1368	1362	447
25°	1486	1381	1212	1154	1156	680
35°	1166	1069	916	885	902	724
45°	758	702	625	627	640	588
55°	466	427	388	388	392	420
65°	272	242	208	175	173	272
75°	126	105	82	80	85	135
85°	23	18	21	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°	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7
2.5°	1512.9	1512.9	1510.7	1508.7	1504.6	1498.4	1494.3	1490.2	1490.2
5°	1537.6	1533.5	1525.2	1514.9	1504.6	1492.2	1484.0	1477.8	1477.8
7.5°	1558.3	1550.0	1533.5	1514.9	1496.4	1479.8	1465.4	1457.1	1455.1
10°	1566.5	1556.2	1531.4	1502.5	1473.6	1450.9	1434.4	1424.1	1424.1
12.5°	1574.8	1562.3	1529.4	1488.2	1450.9	1420.0	1403.5	1395.2	1393.2
15°	1585.1	1568.6	1527.3	1475.7	1426.2	1391.1	1368.4	1362.2	1362.2
17.5°	1585.1	1564.5	1512.9	1448.9	1387.0	1347.7	1327.2	1320.9	1323.0
20°	1566.5	1543.8	1481.9	1403.5	1335.4	1294.1	1273.4	1269.4	1271.4
22.5°	1531.4	1504.6	1434.4	1349.9	1275.6	1232.2	1213.6	1213.6	1211.5
25°	1486.0	1457.1	1380.8	1292.0	1211.5	1168.2	1153.7	1155.8	1155.8
27.5°	1426.2	1397.3	1320.9	1226.0	1145.5	1102.1	1091.9	1095.9	1098.0
30°	1351.9	1320.9	1240.5	1147.5	1073.2	1029.9	1023.7	1029.9	1031.9
32.5°	1261.1	1238.3	1160.0	1065.0	994.8	957.6	955.6	961.8	970.1
35°	1166.2	1141.3	1069.1	982.5	916.4	885.4	885.4	895.8	902.0
37.5°	1063.0	1038.1	972.1	899.8	844.2	815.3	819.3	829.7	831.8
40°	953.6	934.9	879.3	817.3	769.9	747.2	753.4	763.7	765.7
42.5°	850.4	833.8	788.4	732.7	697.6	681.1	689.4	701.7	705.9
45°	757.5	738.8	701.7	654.3	625.4	617.1	627.4	635.6	639.8
47.5°	672.9	656.3	625.4	582.0	561.4	557.3	567.6	571.7	575.8
50°	598.5	582.0	551.1	511.9	495.3	495.3	503.5	507.7	505.7
52.5°	526.3	511.9	483.0	449.9	439.6	439.6	445.8	447.9	452.1
55°	466.4	452.1	427.2	396.3	388.0	383.9	388.0	388.0	392.1
57.5°	410.7	398.3	375.6	346.7	336.4	332.3	330.2	328.2	332.3
60°	361.2	350.9	326.1	301.3	293.1	282.7	274.5	266.2	268.4
62.5°	315.8	305.5	282.7	258.0	249.7	235.3	225.0	214.6	218.8
65°	272.4	262.2	241.5	220.8	208.4	191.9	175.4	169.2	173.4
67.5°	233.3	225.0	204.3	183.7	173.4	154.8	138.3	138.3	140.3
70°	194.0	185.7	169.2	150.6	138.3	121.8	115.6	117.6	117.6
72.5°	159.0	152.8	136.3	119.7	107.4	97.0	97.0	99.0	101.2
75°	125.9	121.8	105.2	90.8	82.5	76.3	80.5	82.5	84.7
77.5°	97.0	90.8	78.5	68.1	61.9	64.0	68.1	70.2	72.3
80°	68.1	66.0	55.8	49.6	47.4	49.6	53.6	55.8	55.8
82.5°	43.4	41.3	35.1	33.1	33.1	35.1	39.2	39.2	39.2
85°	22.7	20.7	18.5	18.5	20.7	22.7	24.7	24.7	24.7
87.5°	8.2	6.2	8.2	8.2	10.3	10.3	10.3	10.3	10.3
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)