

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: P582178

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC630D010-HM63040835-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3154.3 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

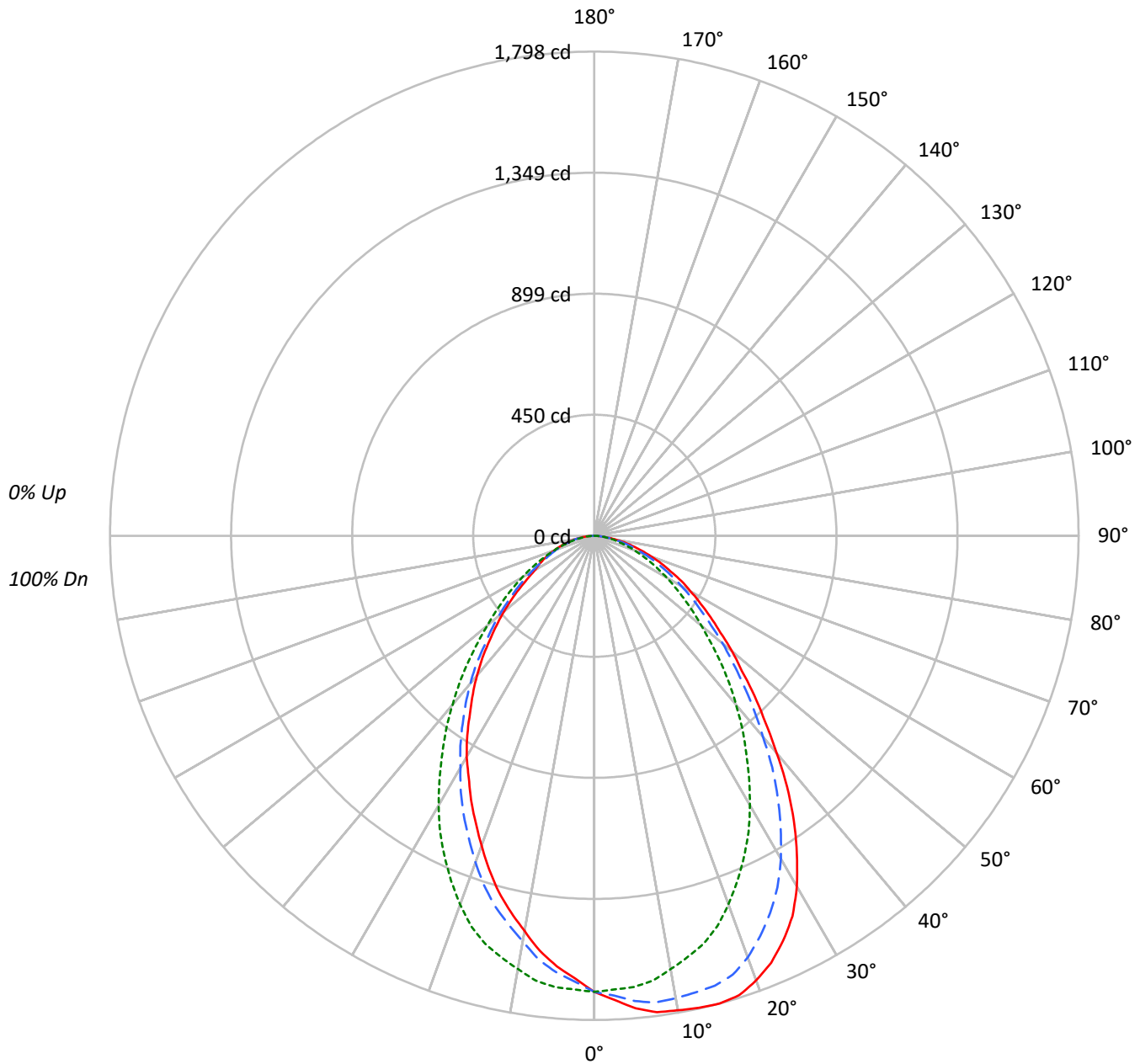
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76		
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66		
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58		
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51		
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46		
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42		
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38		
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34		
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	92832	92832	92832
5°	96946	92560	88289
10°	99592	90958	82970
15°	102055	88996	77736
20°	102506	84958	71395
25°	100355	79541	65484
30°	95217	73144	60016
35°	86478	65732	53840
40°	75355	58553	48441
45°	65201	51246	42578
50°	56945	44118	37321
55°	50321	38775	32028
60°	45227	33989	27739
65°	40497	29562	26903
70°	36176	25213	25213
75°	31369	21223	23638
80°	25193	17995	21594
85°	17171	15788	18618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.1	5.0
10°-20°	442.4	14.0
20°-30°	616.5	19.5
30°-40°	635.2	20.1
40°-50°	526.5	16.7
50°-60°	378.3	12.0
60°-70°	240.9	7.6
70°-80°	123.7	3.9
80°-90°	31.5	1.0
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°	1218.1	38.6
0°-40°	1853.3	58.8
0°-60°	2758.1	87.4
0°-90°	3154.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3154.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1693	1693	1693	1693	1693	
5°	1762	1734	1682	1627	1604	169
15°	1798	1730	1568	1424	1370	507
25°	1659	1545	1315	1146	1083	760
35°	1292	1187	982	852	804	803
45°	841	782	661	576	549	651
55°	526	483	406	360	335	474
65°	312	278	228	198	207	313
75°	148	128	100	105	112	158
85°	27	25	25	27	30	35
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°	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4
2.5°	1725.2	1718.5	1709.3	1700.2	1686.5	1670.5	1656.9	1652.4	1645.5
5°	1761.7	1752.6	1734.4	1711.6	1682.0	1652.4	1627.3	1611.3	1604.4
7.5°	1784.6	1773.2	1748.1	1709.3	1666.0	1622.7	1586.2	1563.4	1554.4
10°	1789.1	1777.7	1743.4	1691.1	1634.0	1574.8	1529.3	1501.9	1490.5
12.5°	1795.9	1779.9	1736.7	1675.1	1602.2	1533.8	1476.9	1442.6	1431.2
15°	1798.2	1779.9	1729.8	1654.6	1568.1	1485.9	1424.4	1383.4	1369.7
17.5°	1789.1	1768.5	1709.3	1618.1	1520.1	1433.6	1360.6	1317.3	1299.1
20°	1757.1	1734.4	1666.0	1563.4	1456.3	1365.2	1289.9	1244.4	1223.8
22.5°	1716.1	1686.5	1609.1	1499.7	1387.9	1292.2	1217.1	1171.4	1151.0
25°	1659.1	1631.8	1545.2	1428.9	1315.0	1214.8	1146.3	1098.5	1082.6
27.5°	1593.0	1561.2	1472.2	1356.1	1239.8	1139.5	1073.4	1030.1	1009.6
30°	1504.2	1474.6	1385.7	1269.5	1155.5	1062.0	993.6	957.3	948.1
32.5°	1399.3	1374.2	1287.7	1178.3	1068.9	982.2	925.3	886.5	877.5
35°	1292.2	1262.6	1187.3	1084.8	982.2	904.8	852.4	818.2	804.5
37.5°	1176.0	1148.7	1084.8	993.6	902.6	829.6	784.0	754.4	740.7
40°	1053.0	1032.4	973.2	900.2	818.2	754.4	715.7	690.6	676.9
42.5°	939.0	918.5	877.5	809.1	740.7	683.7	649.6	626.7	615.3
45°	841.0	822.8	781.8	722.4	661.0	613.0	576.5	560.6	549.2
47.5°	743.0	733.9	697.3	642.7	585.7	544.7	519.6	501.4	492.2
50°	667.7	656.3	622.2	565.3	517.3	485.5	462.6	446.7	437.6
52.5°	590.2	578.9	546.9	499.1	460.4	430.8	407.9	394.3	385.1
55°	526.5	517.3	483.2	439.8	405.7	380.6	360.1	344.1	335.1
57.5°	467.2	458.1	426.1	385.1	355.5	332.8	314.5	300.8	289.4
60°	412.5	405.7	373.8	335.1	310.0	287.1	271.2	259.8	253.0
62.5°	364.7	351.0	323.6	289.4	266.7	248.4	232.4	225.7	230.2
65°	312.2	305.5	278.0	248.4	227.9	209.6	198.3	202.8	207.4
67.5°	269.0	259.8	237.0	209.6	191.4	177.8	171.0	180.0	182.3
70°	225.7	216.5	195.9	173.2	157.3	148.1	148.1	154.9	157.3
72.5°	184.7	177.8	159.6	141.3	130.0	123.1	127.6	132.2	134.5
75°	148.1	141.3	127.6	111.6	100.2	100.2	104.9	109.4	111.6
77.5°	113.9	109.4	95.7	84.3	79.8	79.8	84.3	86.6	88.9
80°	79.8	75.3	68.4	61.6	57.0	61.6	66.1	66.1	68.4
82.5°	52.4	50.2	45.5	41.0	41.0	43.3	45.5	47.9	47.9
85°	27.3	27.3	25.1	22.8	25.1	27.3	27.3	29.6	29.6
87.5°	9.2	9.2	9.2	9.2	11.4	11.4	11.4	11.4	11.4
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)