

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: P582161

Luminaire Tested: **HC630D010-HM63040830-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582161
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-HM63040830-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3147.2 lumens
Efficiency: N/A
Efficacy: 112.4 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

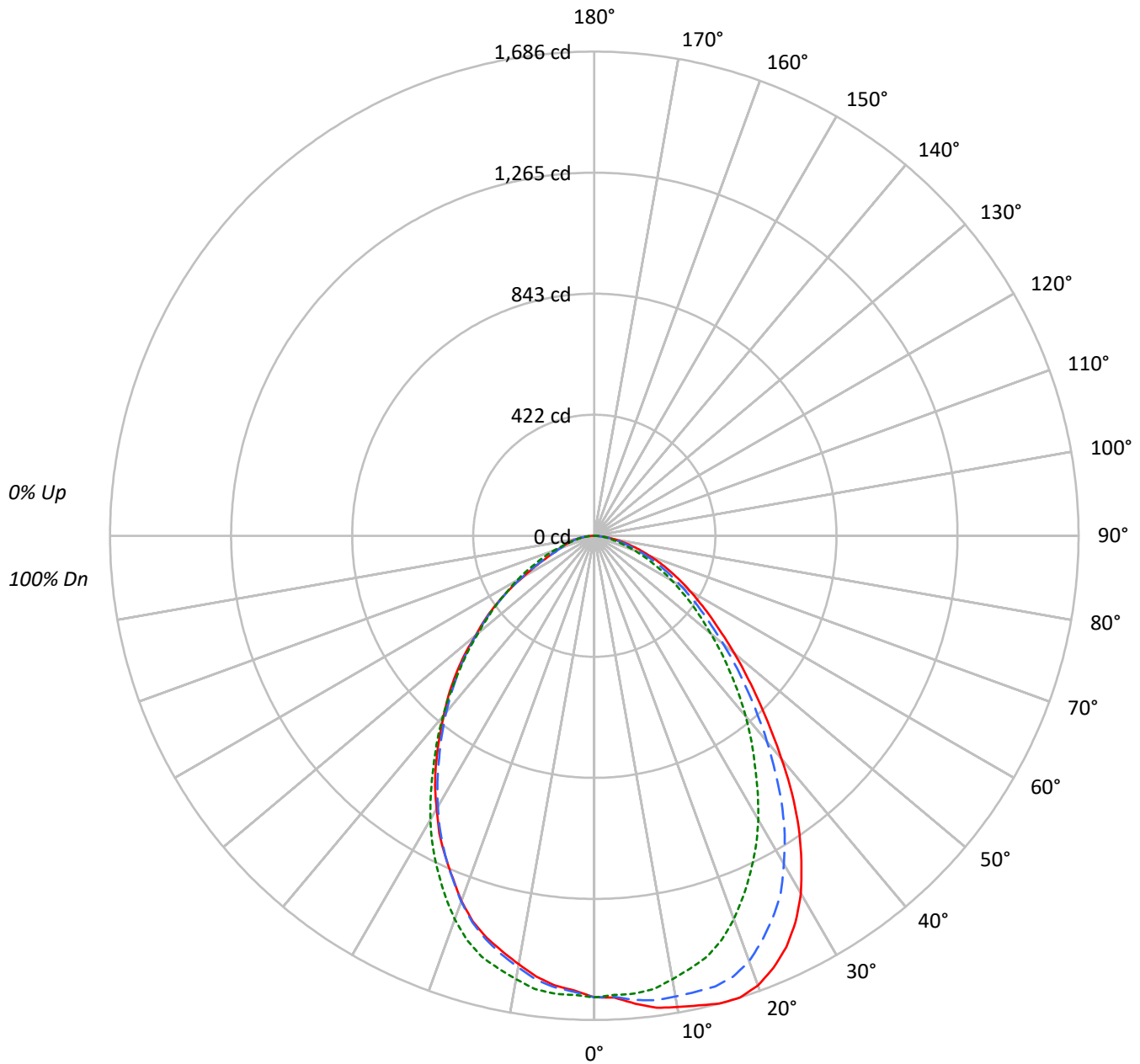
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76		
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66		
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58		
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52		
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	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	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	88101	88101	88101
5°	90006	88075	86506
10°	92762	87262	84328
15°	95693	86096	82237
20°	97215	82870	78897
25°	95618	77956	74363
30°	91027	72271	69485
35°	83018	65230	64206
40°	72586	58603	58288
45°	62472	51571	52765
50°	54301	44945	45875
55°	47425	39444	39865
60°	42124	34186	31291
65°	37592	28758	23920
70°	33083	23578	20051
75°	28361	18618	19063
80°	22856	15943	18721
85°	15159	13838	16605



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.2	4.8
10°-20°	433.2	13.8
20°-30°	618.4	19.6
30°-40°	647.7	20.6
40°-50°	545.3	17.3
50°-60°	388.1	12.3
60°-70°	227.2	7.2
70°-80°	107.5	3.4
80°-90°	27.6	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°	1203.7	38.2
0°-40°	1851.4	58.8
0°-60°	2784.9	88.5
0°-90°	3147.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3147.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1607	1607	1607	1607	1607	
5°	1636	1622	1600	1578	1572	157
15°	1686	1625	1517	1456	1449	476
25°	1581	1469	1289	1227	1229	724
35°	1240	1137	975	942	959	770
45°	806	746	665	667	681	626
55°	496	454	413	413	417	447
65°	290	257	222	187	184	289
75°	134	112	88	86	90	144
85°	24	20	22	26	26	31
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°	1607.1	1607.1	1607.1	1607.1	1607.1	1607.1	1607.1	1607.1	1607.1
2.5°	1609.3	1609.3	1607.1	1604.9	1600.5	1593.9	1589.5	1585.1	1585.1
5°	1635.6	1631.2	1622.4	1611.5	1600.5	1587.3	1578.5	1572.0	1572.0
7.5°	1657.6	1648.8	1631.2	1611.5	1591.7	1574.1	1558.8	1550.0	1547.8
10°	1666.4	1655.3	1629.0	1598.3	1567.6	1543.4	1525.8	1514.9	1514.9
12.5°	1675.2	1662.0	1626.8	1582.9	1543.4	1510.5	1492.9	1484.1	1482.0
15°	1686.1	1668.5	1624.6	1569.7	1517.0	1479.7	1455.6	1449.0	1449.0
17.5°	1686.1	1664.1	1609.3	1541.2	1475.3	1433.6	1411.7	1405.0	1407.3
20°	1666.4	1642.2	1576.4	1492.9	1420.5	1376.5	1354.6	1350.2	1352.4
22.5°	1629.0	1600.5	1525.8	1435.8	1356.8	1310.6	1290.9	1290.9	1288.8
25°	1580.8	1550.0	1468.8	1374.4	1288.8	1242.6	1227.3	1229.4	1229.4
27.5°	1517.0	1486.4	1405.0	1304.1	1218.5	1172.4	1161.4	1165.8	1168.0
30°	1438.0	1405.0	1319.4	1220.6	1141.7	1095.5	1088.9	1095.5	1097.7
32.5°	1341.4	1317.3	1233.8	1132.9	1058.2	1018.7	1016.5	1023.1	1031.8
35°	1240.5	1214.1	1137.3	1045.0	974.7	941.8	941.8	952.9	959.4
37.5°	1130.6	1104.3	1034.1	957.3	897.9	867.3	871.5	882.6	884.7
40°	1014.3	994.5	935.3	869.4	818.9	794.7	801.4	812.3	814.5
42.5°	904.5	887.0	838.7	779.4	742.1	724.5	733.3	746.5	750.9
45°	805.8	785.9	746.5	695.9	665.2	656.4	667.4	676.2	680.6
47.5°	715.7	698.2	665.2	619.1	597.1	592.7	603.8	608.2	612.6
50°	636.7	619.1	586.2	544.4	527.0	527.0	535.6	540.0	537.9
52.5°	559.8	544.4	513.8	478.6	467.6	467.6	474.2	476.4	480.8
55°	496.2	480.8	454.4	421.5	412.7	408.3	412.7	412.7	417.1
57.5°	436.8	423.8	399.6	368.8	357.9	353.5	351.2	349.1	353.5
60°	384.2	373.2	346.8	320.6	311.8	300.8	292.0	283.2	285.4
62.5°	335.9	325.0	300.8	274.4	265.6	250.3	239.3	228.3	232.7
65°	289.8	278.8	256.8	234.9	221.7	204.2	186.6	180.0	184.4
67.5°	248.1	239.3	217.3	195.4	184.4	164.7	147.1	147.1	149.3
70°	206.4	197.6	180.0	160.3	147.1	129.5	122.9	125.1	125.1
72.5°	169.1	162.4	144.9	127.3	114.1	103.2	103.2	105.3	107.6
75°	133.9	129.5	112.0	96.5	87.9	81.2	85.6	87.9	90.0
77.5°	103.2	96.5	83.5	72.4	65.9	68.0	72.4	74.7	76.8
80°	72.4	70.3	59.3	52.7	50.5	52.7	57.1	59.3	59.3
82.5°	46.1	43.9	37.3	35.1	35.1	37.3	41.7	41.7	41.7
85°	24.1	22.0	19.7	19.7	22.0	24.1	26.4	26.4	26.4
87.5°	8.8	6.5	8.8	8.8	10.9	10.9	10.9	10.9	10.9
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)