

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: P582160

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582160
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-HM63040830-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3039.6 lumens
Efficiency: N/A
Efficacy: 108.6 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

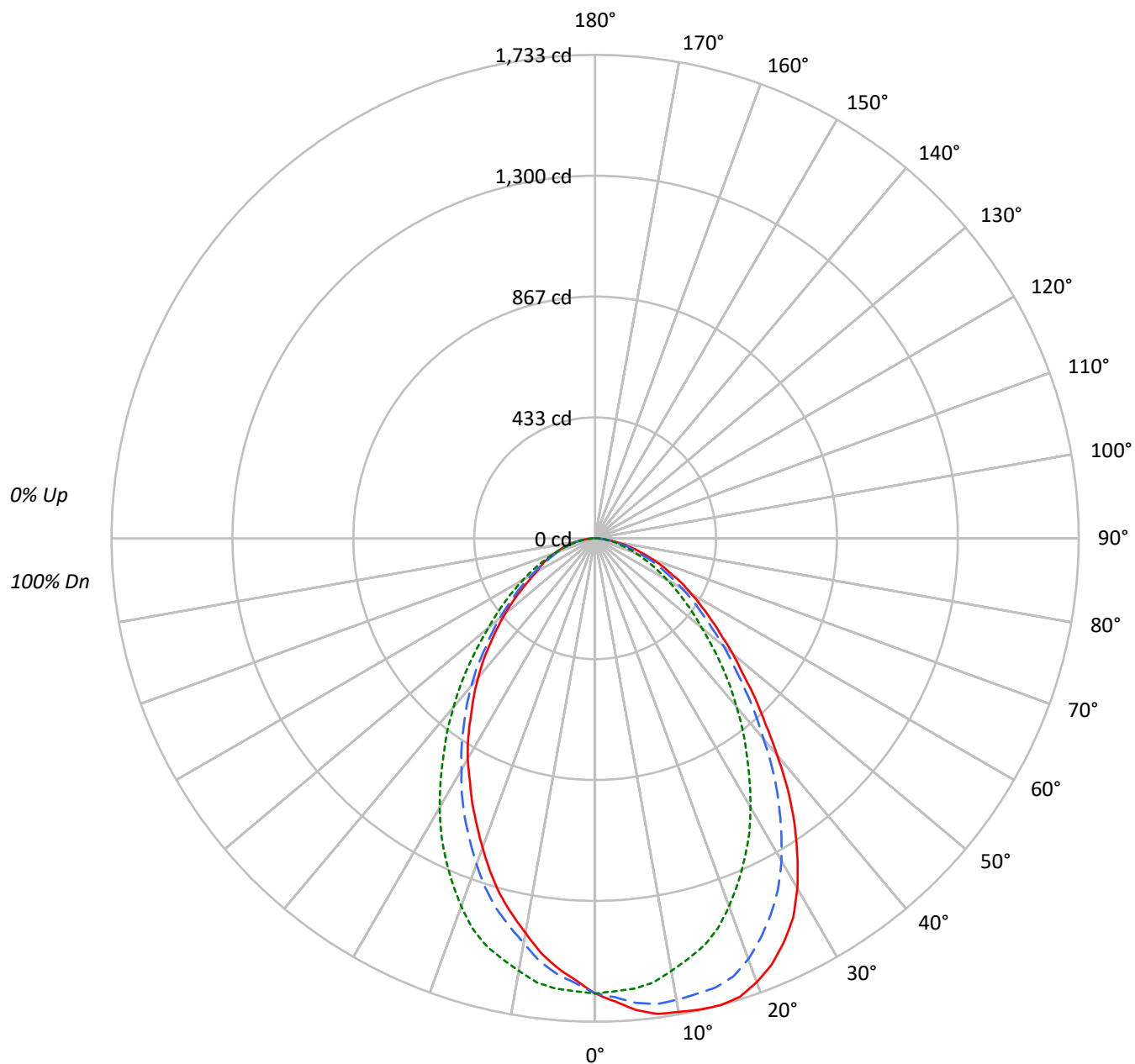
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	89456	89456	89456
5°	93424	89186	85081
10°	95968	87657	79953
15°	98338	85755	74910
20°	98784	81872	68804
25°	96707	76650	63100
30°	91755	70486	57832
35°	83333	63349	51879
40°	72615	56420	46680
45°	62828	49377	41028
50°	54881	42515	35956
55°	48486	37361	30852
60°	43582	32750	26719
65°	39031	28486	25930
70°	34862	24283	24283
75°	30246	20482	22791
80°	24246	17332	20804
85°	16605	15159	17926



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.4	5.0
10°-20°	426.3	14.0
20°-30°	594.1	19.5
30°-40°	612.1	20.1
40°-50°	507.3	16.7
50°-60°	364.6	12.0
60°-70°	232.2	7.6
70°-80°	119.2	3.9
80°-90°	30.3	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°	1173.8	38.6
0°-40°	1785.9	58.8
0°-60°	2657.8	87.4
0°-90°	3039.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3039.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1632	1632	1632	1632	1632	
5°	1698	1671	1621	1568	1546	163
15°	1733	1667	1511	1373	1320	488
25°	1599	1489	1267	1105	1043	733
35°	1245	1144	947	821	775	773
45°	810	753	637	556	529	627
55°	507	466	391	347	323	457
65°	301	268	220	191	200	301
75°	143	123	97	101	108	152
85°	26	24	24	26	28	34
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°	1631.8	1631.8	1631.8	1631.8	1631.8	1631.8	1631.8	1631.8	1631.8
2.5°	1662.5	1655.9	1647.1	1638.3	1625.1	1609.8	1596.6	1592.2	1585.7
5°	1697.7	1688.9	1671.3	1649.4	1620.7	1592.2	1568.1	1552.7	1546.1
7.5°	1719.7	1708.6	1684.5	1647.1	1605.4	1563.7	1528.6	1506.6	1497.8
10°	1724.0	1713.0	1680.1	1629.5	1574.7	1517.5	1473.6	1447.3	1436.3
12.5°	1730.6	1715.3	1673.5	1614.2	1543.9	1478.0	1423.1	1390.2	1379.2
15°	1732.7	1715.3	1666.9	1594.4	1511.0	1431.9	1372.6	1333.1	1319.9
17.5°	1724.0	1704.2	1647.1	1559.3	1464.8	1381.4	1311.1	1269.4	1251.8
20°	1693.3	1671.3	1605.4	1506.6	1403.4	1315.5	1243.0	1199.1	1179.4
22.5°	1653.8	1625.1	1550.5	1445.1	1337.5	1245.2	1172.7	1128.8	1109.1
25°	1598.8	1572.5	1489.0	1377.0	1267.2	1170.6	1104.7	1058.6	1043.2
27.5°	1535.1	1504.4	1418.7	1306.7	1194.7	1098.0	1034.4	992.7	973.0
30°	1449.5	1421.0	1335.2	1223.2	1113.5	1023.4	957.5	922.4	913.6
32.5°	1348.4	1324.3	1240.8	1135.4	1030.0	946.6	891.6	854.3	845.5
35°	1245.2	1216.7	1144.2	1045.4	946.6	871.9	821.4	788.4	775.2
37.5°	1133.2	1106.8	1045.4	957.5	869.6	799.4	755.5	727.0	713.8
40°	1014.7	994.8	937.8	867.5	788.4	727.0	689.6	665.5	652.3
42.5°	904.8	885.1	845.5	779.6	713.8	658.8	625.9	603.9	593.0
45°	810.4	792.8	753.2	696.2	636.9	590.8	555.6	540.3	529.2
47.5°	715.9	707.2	672.0	619.4	564.4	524.9	500.7	483.2	474.4
50°	643.5	632.5	599.6	544.7	498.5	467.8	445.9	430.4	421.6
52.5°	568.8	557.9	527.1	481.0	443.6	415.1	393.1	379.9	371.2
55°	507.3	498.5	465.6	423.9	390.9	366.8	347.0	331.6	322.8
57.5°	450.3	441.5	410.7	371.2	342.6	320.7	303.1	289.9	278.9
60°	397.5	390.9	360.1	322.8	298.7	276.7	261.3	250.4	243.7
62.5°	351.3	338.3	311.9	278.9	256.9	239.3	224.0	217.5	221.9
65°	300.9	294.3	267.9	239.3	219.6	202.0	191.1	195.5	199.9
67.5°	259.2	250.4	228.4	202.0	184.5	171.3	164.7	173.5	175.7
70°	217.5	208.7	188.8	166.9	151.5	142.8	142.8	149.3	151.5
72.5°	177.9	171.3	153.7	136.1	125.2	118.5	122.9	127.3	129.6
75°	142.8	136.1	122.9	107.6	96.7	96.7	101.1	105.5	107.6
77.5°	109.9	105.5	92.3	81.2	76.8	76.8	81.2	83.5	85.6
80°	76.8	72.5	65.9	59.3	54.9	59.3	63.7	63.7	65.9
82.5°	50.5	48.3	43.9	39.5	39.5	41.7	43.9	46.1	46.1
85°	26.4	26.4	24.1	22.0	24.1	26.4	26.4	28.5	28.5
87.5°	8.8	8.8	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)