

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: P593210

Luminaire Tested: **HC630D010-HM63040850-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593210
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC630D010-HM63040850-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3580.1 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

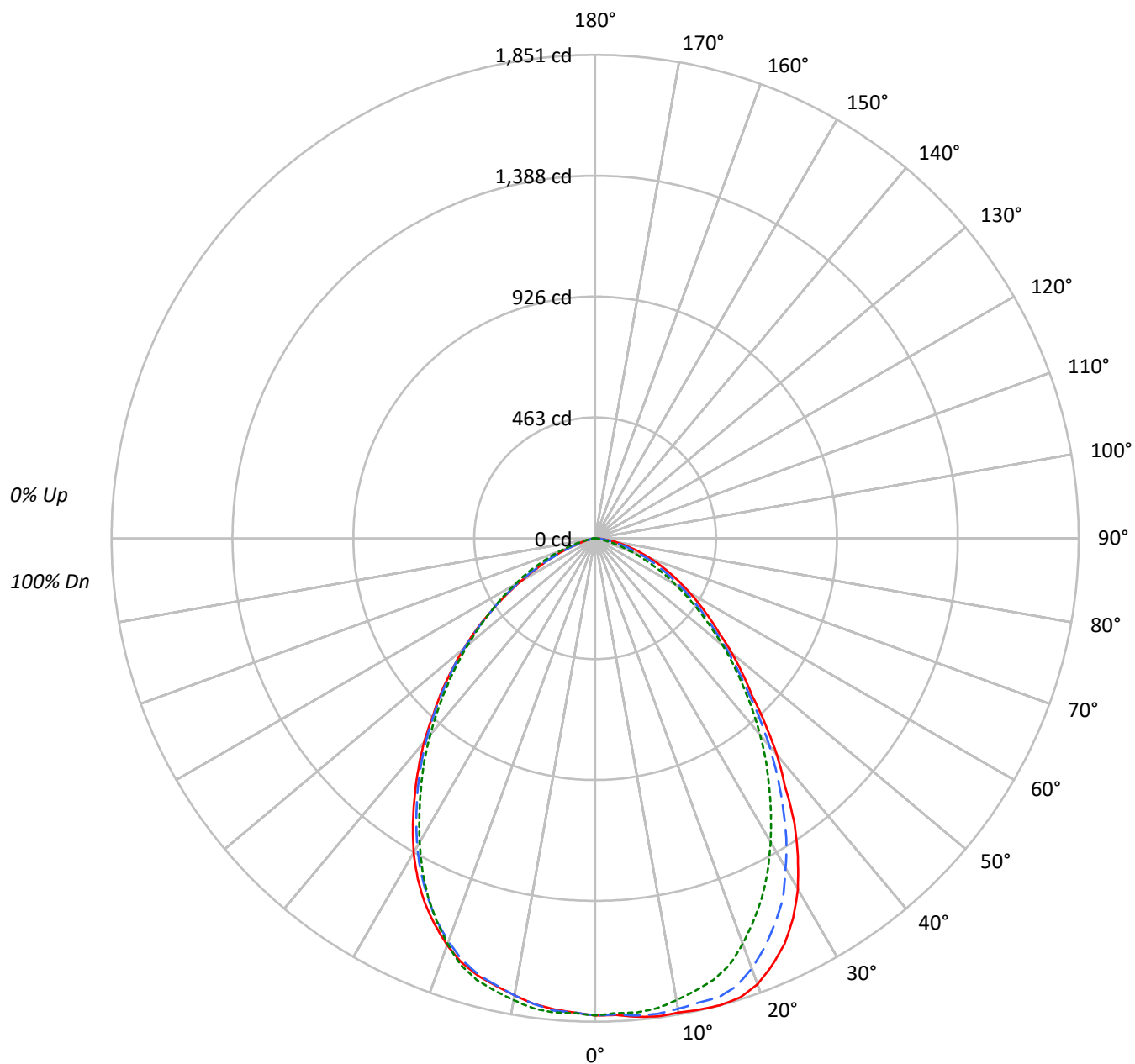
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77		
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67		
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59		
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53		
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47		
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42		
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38		
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35		
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	100162	100162	100162
5°	101199	100280	99626
10°	102637	99976	98907
15°	105052	99342	98394
20°	106030	96387	96673
25°	103706	91542	93278
30°	98218	85032	87919
35°	88934	77724	80609
40°	77452	70260	72829
45°	65712	62193	64418
50°	58207	54318	55751
55°	51267	46460	46230
60°	45939	39120	35962
65°	40990	31365	25787
70°	36080	22648	16125
75°	30416	13704	9150
80°	23425	6030	3788
85°	13523	1510	1510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.4	4.8
10°-20°	498.4	13.9
20°-30°	720.5	20.1
30°-40°	758.2	21.2
40°-50°	637.3	17.8
50°-60°	447.3	12.5
60°-70°	246.1	6.9
70°-80°	87.4	2.4
80°-90°	11.4	0.3
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°	1392.4	38.9
0°-40°	2150.6	60.1
0°-60°	3235.2	90.4
0°-90°	3580.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3580.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1827	1827	1827	1827	1827	
5°	1839	1834	1822	1815	1810	176
15°	1851	1820	1750	1729	1734	522
25°	1714	1628	1513	1516	1542	784
35°	1329	1252	1161	1185	1204	824
45°	848	824	802	821	831	665
55°	536	508	486	486	484	483
65°	316	282	242	199	199	315
75°	144	115	65	43	43	154
85°	22	12	2	2	2	30
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°	1827.1	1827.1	1827.1	1827.1	1827.1	1827.1	1827.1	1827.1	1827.1
2.5°	1827.1	1827.1	1824.6	1824.6	1819.9	1819.9	1817.5	1817.5	1817.5
5°	1839.0	1839.0	1834.3	1827.1	1822.3	1815.1	1815.1	1812.7	1810.4
7.5°	1846.3	1843.8	1836.6	1827.1	1815.1	1803.1	1798.4	1800.7	1798.4
10°	1843.8	1839.0	1829.5	1810.4	1796.0	1779.2	1776.8	1774.3	1776.8
12.5°	1848.7	1841.4	1822.3	1798.4	1774.3	1755.2	1752.8	1752.8	1755.2
15°	1851.0	1843.8	1819.9	1784.0	1750.4	1731.3	1728.9	1731.3	1733.7
17.5°	1843.8	1834.3	1798.4	1750.4	1712.2	1693.0	1693.0	1697.8	1702.5
20°	1817.5	1803.1	1752.8	1695.4	1652.2	1637.8	1642.7	1652.2	1657.1
22.5°	1769.6	1752.8	1695.4	1630.7	1585.2	1573.3	1585.2	1597.2	1601.9
25°	1714.5	1695.4	1628.3	1561.3	1513.4	1499.0	1515.7	1534.9	1542.1
27.5°	1640.3	1618.7	1556.5	1479.8	1431.9	1424.8	1443.9	1465.4	1470.3
30°	1551.6	1527.7	1458.3	1386.5	1343.3	1341.0	1362.5	1381.7	1388.9
32.5°	1443.9	1422.4	1362.5	1290.7	1252.4	1252.4	1273.9	1290.7	1297.9
35°	1328.9	1305.0	1252.4	1192.6	1161.4	1163.8	1185.3	1197.3	1204.5
37.5°	1192.6	1185.3	1144.7	1094.4	1072.8	1077.6	1094.4	1103.9	1111.1
40°	1082.3	1063.2	1036.8	996.1	981.8	986.6	1003.3	1012.9	1017.7
42.5°	962.6	950.6	929.1	900.3	890.8	897.9	912.3	919.6	917.1
45°	847.6	845.3	823.7	807.0	802.2	811.7	821.4	828.5	830.9
47.5°	763.9	754.3	735.2	723.1	718.4	727.9	737.5	742.3	742.3
50°	682.5	672.9	653.7	641.7	636.9	646.6	653.7	658.5	653.7
52.5°	601.0	591.4	574.6	560.4	558.0	562.8	565.1	567.5	572.3
55°	536.4	526.8	507.7	490.9	486.1	488.4	486.1	486.1	483.7
57.5°	474.2	464.5	445.4	426.3	419.0	416.6	409.5	407.1	404.7
60°	419.0	407.1	388.0	366.3	356.8	347.2	335.3	328.0	328.0
62.5°	366.3	354.4	332.8	313.7	299.3	282.5	263.4	253.9	253.9
65°	316.0	306.5	282.5	261.0	241.8	220.3	198.8	193.9	198.8
67.5°	268.2	258.6	234.7	213.1	189.2	162.8	143.6	143.6	148.5
70°	225.1	215.6	193.9	167.6	141.3	115.0	100.6	100.6	100.6
72.5°	184.4	174.8	150.9	126.9	100.6	74.2	67.1	69.4	67.1
75°	143.6	136.5	115.0	88.6	64.7	45.5	43.2	40.7	43.2
77.5°	107.7	100.6	81.4	57.4	35.9	26.4	23.9	23.9	23.9
80°	74.2	67.1	52.7	33.5	19.1	12.0	12.0	12.0	12.0
82.5°	45.5	38.3	28.8	16.8	7.1	7.1	7.1	7.1	7.1
85°	21.5	16.8	12.0	4.8	2.4	2.4	2.4	2.4	2.4
87.5°	4.8	4.8	2.4	2.4	0.0	2.4	2.4	0.0	0.0
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)