

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: P582321

Luminaire Tested: **HC635D010-HM63040835-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC635D010-HM63040835-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3430.9 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

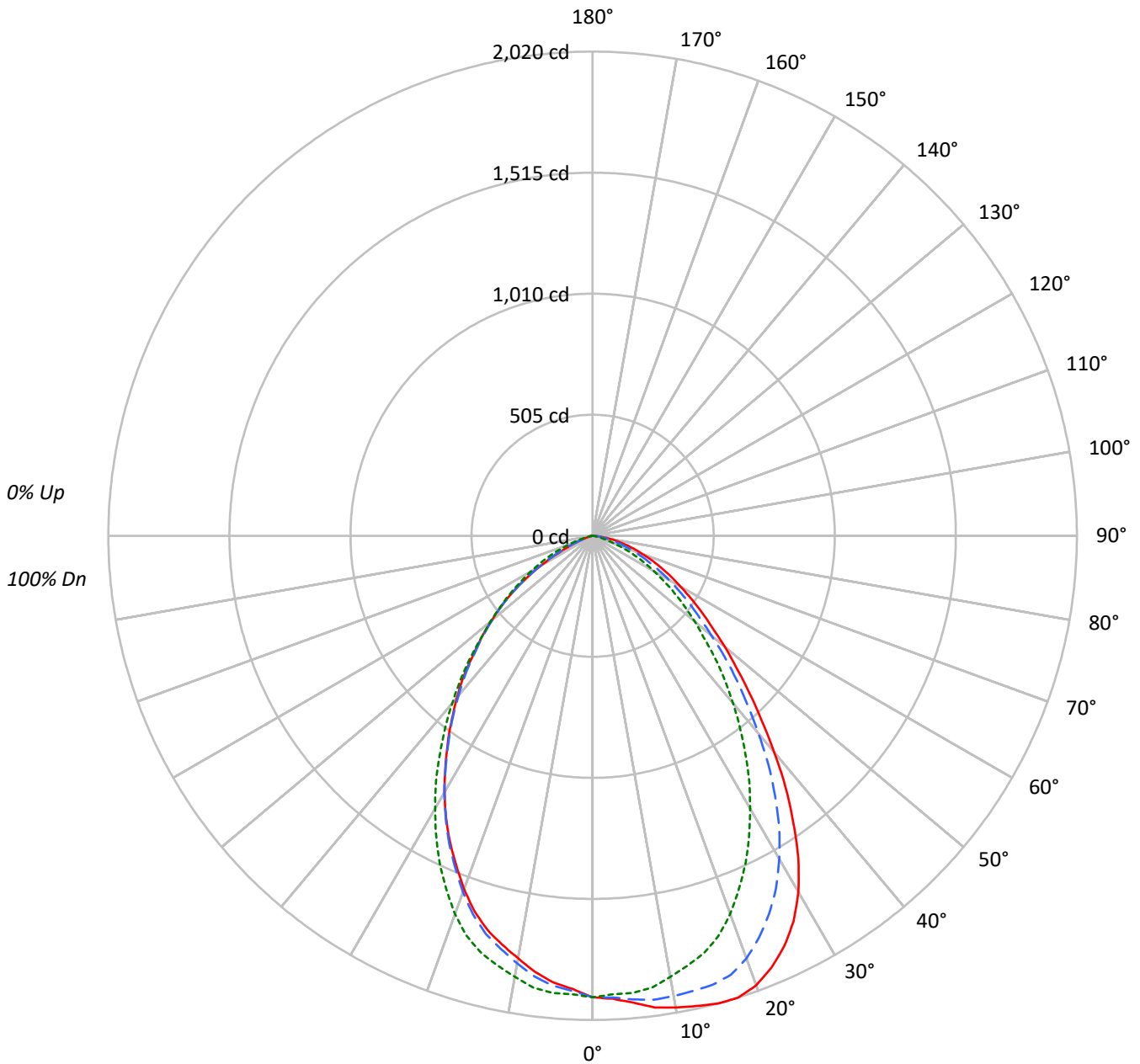
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69			
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61			
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54			
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49			
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44			
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40			
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37			
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	105545	105545	105545
5°	107588	105354	102971
10°	111243	104006	99636
15°	114649	102197	96516
20°	116426	97939	91469
25°	114327	91227	85172
30°	108675	83133	78164
35°	97681	74298	70490
40°	84301	65108	62975
45°	71372	56052	54587
50°	61201	47342	46881
55°	53054	39855	38297
60°	46323	32355	27322
65°	40757	24931	15112
70°	35150	16493	7373
75°	29844	8028	2859
80°	23077	3441	1705
85°	13649	1698	1698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.7	5.3
10°-20°	513.8	15.0
20°-30°	723.5	21.1
30°-40°	739.2	21.5
40°-50°	596.0	17.4
50°-60°	399.8	11.7
60°-70°	202.3	5.9
70°-80°	64.7	1.9
80°-90°	10.0	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°	1419.0	41.4
0°-40°	2158.2	62.9
0°-60°	3154.0	91.9
0°-90°	3430.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3430.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1925	1925	1925	1925	1925	
5°	1955	1942	1914	1885	1871	188
15°	2020	1939	1801	1720	1701	570
25°	1890	1741	1508	1416	1408	865
35°	1460	1327	1110	1048	1053	908
45°	921	848	723	699	704	716
55°	555	493	417	398	401	499
65°	314	260	192	127	116	314
75°	141	100	38	14	14	151
85°	22	11	3	3	3	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°	1925.3	1925.3	1925.3	1925.3	1925.3	1925.3	1925.3	1925.3	1925.3
2.5°	1933.4	1930.7	1928.0	1922.6	1914.5	1906.3	1900.9	1895.4	1892.8
5°	1955.1	1949.7	1941.5	1930.7	1914.5	1895.4	1884.7	1873.9	1871.2
7.5°	1984.8	1974.0	1952.4	1928.0	1900.9	1873.9	1854.8	1844.1	1835.9
10°	1998.4	1979.5	1949.7	1909.1	1868.4	1835.9	1811.5	1795.3	1789.9
12.5°	2009.2	1987.5	1944.2	1890.1	1835.9	1792.6	1765.6	1752.0	1746.5
15°	2020.1	1998.4	1938.9	1868.4	1800.7	1749.3	1719.5	1705.9	1700.6
17.5°	2020.1	1990.3	1919.8	1830.6	1749.3	1687.0	1657.3	1643.7	1640.9
20°	1995.7	1963.2	1876.5	1770.9	1678.8	1608.5	1581.4	1573.2	1567.9
22.5°	1949.7	1911.8	1814.2	1695.1	1594.9	1527.3	1497.5	1492.0	1486.6
25°	1890.1	1852.1	1741.2	1613.8	1508.2	1440.5	1416.2	1410.8	1408.1
27.5°	1814.2	1773.6	1657.3	1527.3	1413.5	1348.5	1326.9	1326.9	1324.2
30°	1716.8	1670.8	1557.0	1427.0	1313.3	1253.7	1237.5	1237.5	1234.8
32.5°	1597.6	1551.6	1448.7	1324.2	1215.8	1153.6	1140.0	1145.4	1142.7
35°	1459.6	1421.6	1326.9	1205.0	1110.2	1053.3	1048.0	1053.3	1053.3
37.5°	1321.4	1286.3	1205.0	1099.4	1010.0	958.6	958.6	966.7	963.9
40°	1178.0	1150.9	1075.0	983.0	909.8	874.7	869.2	877.4	880.0
42.5°	1042.5	1020.9	955.9	880.0	815.0	779.9	788.0	793.4	796.1
45°	920.6	899.1	847.6	769.1	723.0	698.7	698.7	706.7	704.1
47.5°	812.3	796.1	744.7	668.8	628.2	617.3	622.8	628.2	628.2
50°	717.6	693.2	644.4	584.9	555.1	541.6	547.0	549.7	549.7
52.5°	628.2	612.0	563.2	509.0	482.0	473.9	473.9	476.6	476.6
55°	555.1	536.1	492.8	438.7	417.0	406.2	398.1	395.4	400.7
57.5°	484.7	468.4	427.8	376.4	352.0	341.2	324.9	319.5	324.9
60°	422.5	408.9	368.3	319.5	295.1	273.5	254.5	243.7	249.2
62.5°	368.3	352.0	311.4	270.7	243.7	219.3	189.5	173.3	181.5
65°	314.2	300.6	260.0	219.3	192.2	162.4	127.3	116.5	116.5
67.5°	265.4	251.8	213.9	178.7	146.2	111.0	78.5	75.9	78.5
70°	219.3	205.7	173.3	138.1	102.9	67.7	46.0	46.0	46.0
72.5°	181.5	165.1	135.4	100.2	65.0	35.2	24.4	27.1	27.1
75°	140.9	127.3	100.2	67.7	37.9	16.2	13.5	13.5	13.5
77.5°	105.6	94.8	70.4	43.3	18.9	5.4	5.4	5.4	5.4
80°	73.1	62.3	46.0	27.1	10.9	5.4	5.4	5.4	5.4
82.5°	43.3	37.9	27.1	13.5	5.4	2.7	2.7	2.7	2.7
85°	21.7	18.9	10.9	5.4	2.7	2.7	2.7	2.7	2.7
87.5°	5.4	5.4	2.7	2.7	0.0	2.7	2.7	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)