

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: P582465

Luminaire Tested: **HC640D010-HM63040835-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582465
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: HC640D010-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: 3984.1 lumens
Efficiency: N/A
Efficacy: 97.2 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

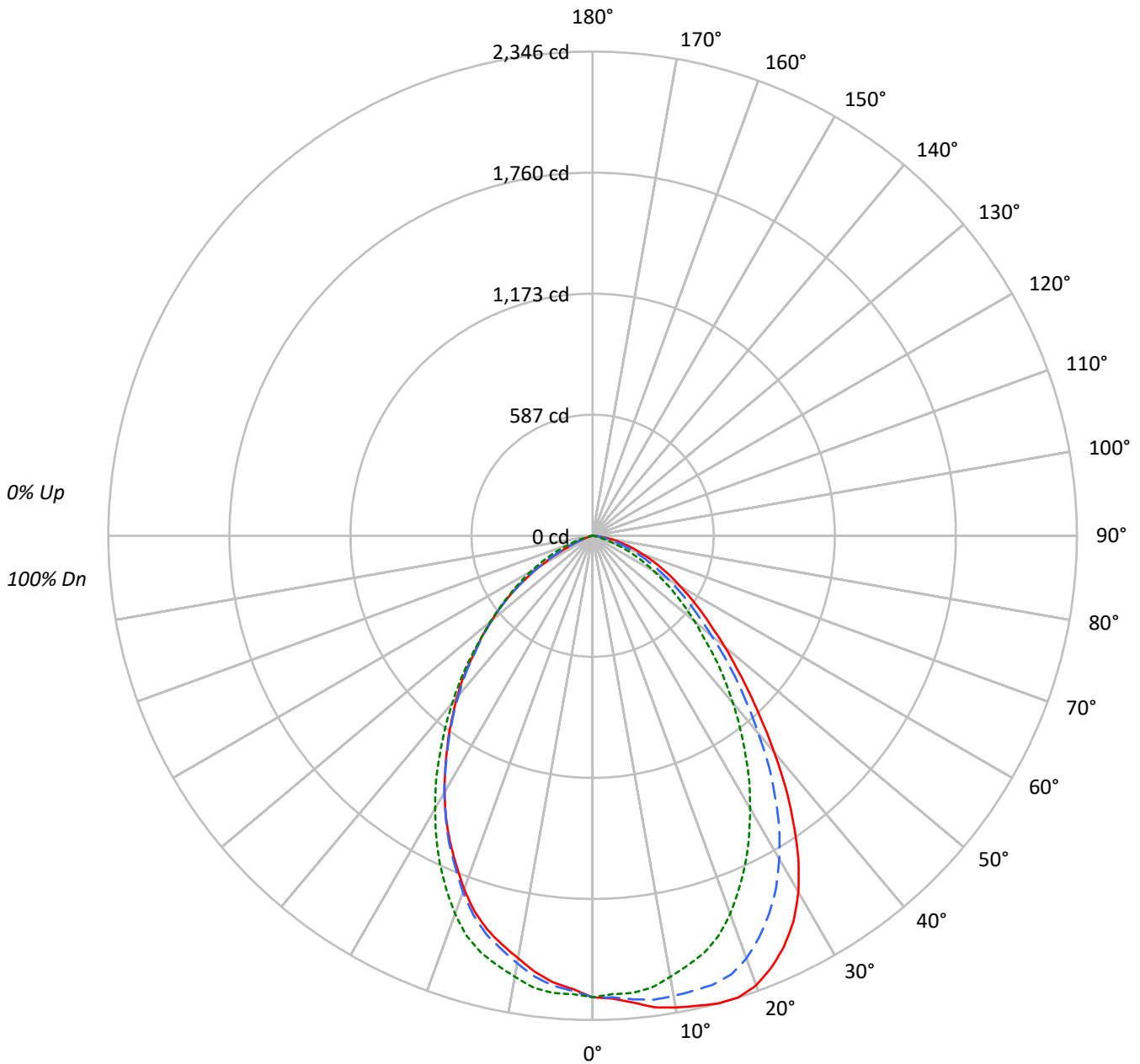
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	122561	122561	122561
5°	124934	122331	119568
10°	129173	120773	115701
15°	133128	118673	112072
20°	135199	113731	106211
25°	132758	105944	98897
30°	126190	96534	90767
35°	113421	86277	81860
40°	97883	75606	73137
45°	82877	65084	63379
50°	71059	54975	54437
55°	61608	46278	44472
60°	53779	37574	31719
65°	47307	28965	17538
70°	40824	19154	8559
75°	34652	9341	3325
80°	26803	3946	1989
85°	15851	2013	2013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.0	5.3
10°-20°	596.6	15.0
20°-30°	840.2	21.1
30°-40°	858.4	21.5
40°-50°	692.1	17.4
50°-60°	464.2	11.7
60°-70°	234.9	5.9
70°-80°	75.1	1.9
80°-90°	11.6	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°	1647.7	41.4
0°-40°	2506.2	62.9
0°-60°	3662.5	91.9
0°-90°	3984.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3984.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2236	2236	2236	2236	2236	
5°	2270	2255	2223	2188	2173	219
15°	2346	2251	2091	1997	1975	662
25°	2195	2022	1752	1644	1635	1005
35°	1695	1541	1289	1217	1223	1055
45°	1069	984	840	811	818	831
55°	645	572	484	462	465	580
65°	365	302	223	148	135	364
75°	164	116	44	16	16	176
85°	25	12	3	3	3	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°	2235.7	2235.7	2235.7	2235.7	2235.7	2235.7	2235.7	2235.7	2235.7
2.5°	2245.1	2241.9	2238.9	2232.5	2223.0	2213.7	2207.3	2201.1	2198.0
5°	2270.3	2263.9	2254.6	2241.9	2223.0	2201.1	2188.5	2176.0	2172.8
7.5°	2304.8	2292.3	2267.1	2238.9	2207.3	2176.0	2153.9	2141.4	2131.9
10°	2320.5	2298.6	2263.9	2216.8	2169.6	2131.9	2103.7	2084.7	2078.5
12.5°	2333.2	2308.0	2257.7	2194.8	2131.9	2081.6	2050.1	2034.4	2028.1
15°	2345.7	2320.5	2251.4	2169.6	2091.0	2031.3	1996.7	1981.0	1974.7
17.5°	2345.7	2311.2	2229.4	2125.6	2031.3	1959.0	1924.4	1908.6	1905.6
20°	2317.5	2279.8	2179.1	2056.5	1949.5	1867.8	1836.3	1826.9	1820.6
22.5°	2263.9	2220.0	2106.7	1968.3	1852.0	1773.4	1738.8	1732.5	1726.3
25°	2194.8	2150.8	2021.9	1874.0	1751.5	1672.9	1644.5	1638.2	1635.0
27.5°	2106.7	2059.6	1924.4	1773.4	1641.4	1565.9	1540.7	1540.7	1537.6
30°	1993.5	1940.1	1808.1	1657.1	1525.0	1455.9	1437.1	1437.1	1433.9
32.5°	1855.2	1801.8	1682.3	1537.6	1411.9	1339.6	1323.7	1330.1	1326.9
35°	1694.8	1650.9	1540.7	1399.3	1289.2	1223.2	1216.9	1223.2	1223.2
37.5°	1534.5	1493.6	1399.3	1276.7	1172.9	1113.1	1113.1	1122.6	1119.4
40°	1367.8	1336.4	1248.3	1141.5	1056.5	1015.6	1009.3	1018.8	1022.0
42.5°	1210.6	1185.4	1109.9	1022.0	946.5	905.6	915.0	921.3	924.5
45°	1069.0	1044.0	984.2	893.0	839.5	811.3	811.3	820.7	817.5
47.5°	943.3	924.5	864.7	776.6	729.5	716.9	723.2	729.5	729.5
50°	833.2	805.0	748.4	679.2	644.6	628.9	635.2	638.3	638.3
52.5°	729.5	710.7	654.1	591.2	559.7	550.3	550.3	553.5	553.5
55°	644.6	622.6	572.3	509.4	484.2	471.7	462.2	459.1	465.3
57.5°	562.8	544.0	496.9	437.1	408.8	396.2	377.4	371.0	377.4
60°	490.5	474.8	427.6	371.0	342.7	317.6	295.6	283.1	289.3
62.5°	427.6	408.8	361.7	314.4	283.1	254.7	220.1	201.3	210.6
65°	364.7	349.0	301.9	254.7	223.3	188.6	147.7	135.2	135.2
67.5°	308.1	292.4	248.4	207.5	169.8	128.9	91.1	88.1	91.1
70°	254.7	239.0	201.3	160.4	119.5	78.6	53.4	53.4	53.4
72.5°	210.6	191.8	157.2	116.3	75.4	40.9	28.4	31.4	31.4
75°	163.6	147.7	116.3	78.6	44.1	18.9	15.7	15.7	15.7
77.5°	122.7	110.0	81.8	50.3	22.0	6.3	6.3	6.3	6.3
80°	84.9	72.3	53.4	31.4	12.5	6.3	6.3	6.3	6.3
82.5°	50.3	44.1	31.4	15.7	6.3	3.2	3.2	3.2	3.2
85°	25.2	22.0	12.5	6.3	3.2	3.2	3.2	3.2	3.2
87.5°	6.3	6.3	3.2	3.2	0.0	3.2	3.2	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)