

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: P582458

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582458
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC640D010-HM63040835-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4685.3 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

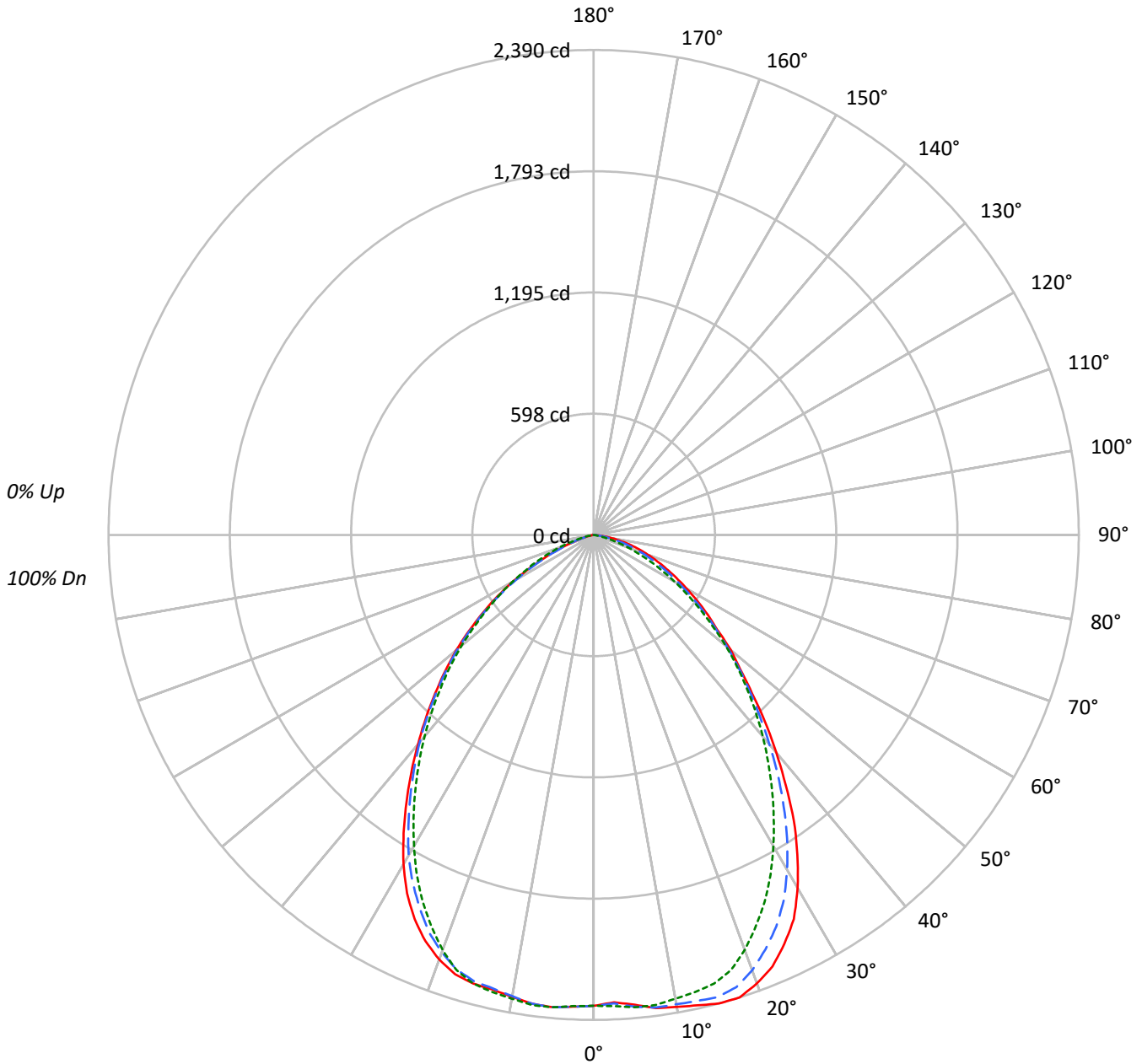
Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68																			
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60																			
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	62	55	50	60	54	49	58	53	49	47																			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	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°	127227	127227	127227
5°	127878	128577	128577
10°	131466	129189	128660
15°	135636	129927	129927
20°	137224	126950	129879
25°	134482	120594	126298
30°	127197	112068	118639
35°	115114	102493	107539
40°	100138	92709	96316
45°	85567	82644	85567
50°	75085	72407	75358
55°	65517	61016	63415
60°	57923	50687	49996
65°	51393	39965	34271
70°	45376	28226	20661
75°	38634	15970	9997
80°	28760	4956	2999
85°	15851	2013	2013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.6	4.8
10°-20°	651.3	13.9
20°-30°	951.3	20.3
30°-40°	997.6	21.3
40°-50°	840.5	17.9
50°-60°	588.9	12.6
60°-70°	315.7	6.7
70°-80°	105.9	2.3
80°-90°	11.6	0.2
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°	1825.2	39.0
0°-40°	2822.8	60.2
0°-60°	4252.2	90.8
0°-90°	4685.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4685.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2321	2321	2321	2321	2321	
5°	2324	2333	2336	2336	2336	223
15°	2390	2358	2289	2277	2289	674
25°	2223	2129	1994	2028	2088	1018
35°	1720	1632	1532	1575	1607	1068
45°	1104	1085	1066	1094	1104	860
55°	686	664	638	651	664	617
65°	396	362	308	255	264	396
75°	182	142	75	47	47	193
85°	25	12	3	3	3	35
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°	2320.8	2320.8	2320.8	2320.8	2320.8	2320.8	2320.8	2320.8	2320.8
2.5°	2305.0	2305.0	2311.3	2317.6	2323.8	2323.8	2327.0	2330.1	2327.0
5°	2323.8	2323.8	2333.3	2336.5	2336.5	2333.3	2336.5	2336.5	2336.5
7.5°	2352.2	2345.8	2349.0	2342.7	2336.5	2333.3	2330.1	2330.1	2330.1
10°	2361.7	2355.3	2349.0	2336.5	2320.8	2311.3	2308.1	2311.3	2311.3
12.5°	2374.2	2367.9	2352.2	2327.0	2308.1	2292.4	2289.3	2295.6	2295.6
15°	2389.9	2383.6	2358.5	2317.6	2289.3	2273.6	2276.7	2283.1	2289.3
17.5°	2389.9	2377.4	2336.5	2283.1	2248.4	2232.7	2245.2	2261.0	2270.4
20°	2352.2	2339.6	2283.1	2217.0	2176.1	2166.6	2188.6	2217.0	2226.3
22.5°	2301.9	2276.7	2210.6	2132.0	2088.0	2088.0	2119.5	2154.1	2166.6
25°	2223.3	2204.3	2128.9	2037.7	1993.7	1990.5	2028.2	2075.4	2088.0
27.5°	2135.2	2110.0	2028.2	1933.9	1886.8	1889.9	1930.8	1978.0	1990.5
30°	2009.4	1978.0	1905.7	1814.4	1770.4	1783.0	1823.9	1858.5	1874.2
32.5°	1868.0	1839.6	1773.5	1688.7	1650.9	1663.5	1698.1	1729.6	1742.1
35°	1720.1	1688.7	1632.0	1556.6	1531.5	1544.0	1575.4	1600.6	1606.9
37.5°	1553.4	1531.5	1490.6	1430.9	1412.0	1427.7	1452.9	1468.6	1474.8
40°	1399.3	1380.5	1345.9	1301.9	1295.5	1308.2	1333.4	1342.7	1345.9
42.5°	1248.4	1232.7	1210.7	1179.2	1179.2	1191.8	1213.9	1220.1	1223.2
45°	1103.7	1094.4	1084.9	1059.7	1066.0	1081.7	1094.4	1103.7	1103.7
47.5°	978.0	981.1	968.5	949.7	956.0	971.7	981.1	990.6	990.6
50°	880.4	871.1	858.5	839.7	849.0	861.6	874.2	880.4	883.6
52.5°	767.3	764.1	754.7	732.7	739.0	745.2	757.9	767.3	770.4
55°	685.5	676.1	663.5	638.4	638.4	644.6	650.9	657.3	663.5
57.5°	606.9	597.5	578.6	550.3	547.1	547.1	544.0	550.3	559.8
60°	528.3	525.1	496.9	471.7	462.3	452.8	440.3	443.4	456.0
62.5°	459.1	452.8	427.6	396.2	377.4	361.7	346.0	342.8	355.3
65°	396.2	389.9	361.7	330.1	308.1	279.9	254.7	254.7	264.2
67.5°	339.6	327.0	301.9	267.2	239.0	204.4	179.3	185.6	188.6
70°	283.1	273.6	245.3	210.6	176.1	141.5	125.8	128.9	128.9
72.5°	232.7	220.1	191.8	157.2	122.7	91.1	84.9	81.8	81.8
75°	182.4	169.8	141.5	107.0	75.4	53.4	47.2	47.2	47.2
77.5°	132.0	122.7	97.5	66.1	40.9	25.2	22.0	18.9	18.9
80°	91.1	81.8	59.8	34.6	15.7	9.5	9.5	9.5	9.5
82.5°	53.4	44.1	28.4	15.7	6.3	3.2	3.2	3.2	3.2
85°	25.2	18.9	12.5	6.3	3.2	3.2	3.2	3.2	3.2
87.5°	3.2	3.2	3.2	0.0	0.0	0.0	0.0	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)