

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: P582459

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582459
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: HC640D010-HM63040835-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4701.0 lumens
Efficiency: N/A
Efficacy: 114.7 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

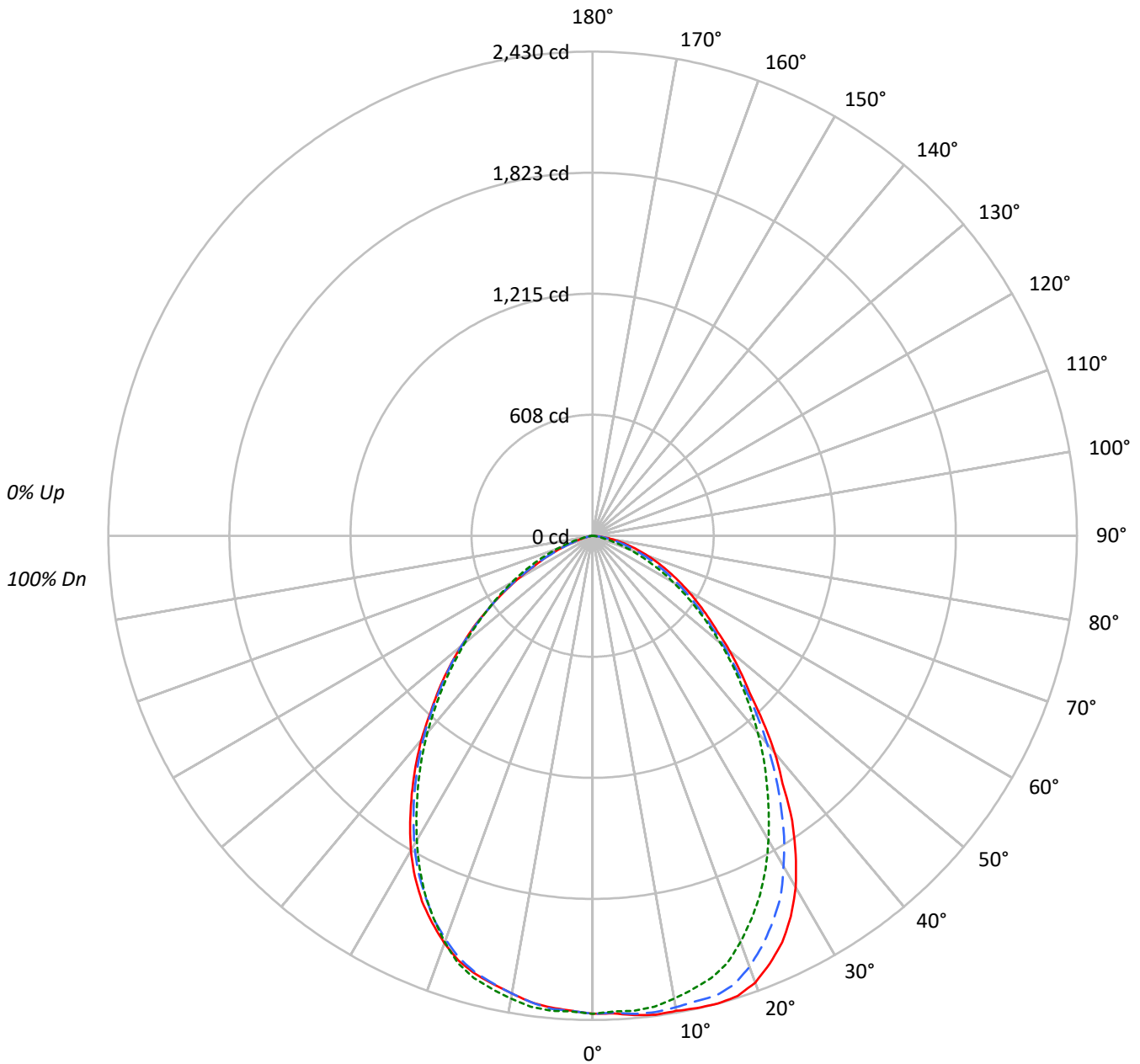
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	131519	131519	131519
5°	132885	131675	130811
10°	134778	131271	129868
15°	137941	130449	129201
20°	139225	126571	126933
25°	136175	120200	122481
30°	128976	111656	115435
35°	116781	102058	105846
40°	101705	92259	95629
45°	86296	81667	84590
50°	76424	71332	73209
55°	67314	61006	60700
60°	60335	51366	47233
65°	53845	41198	33856
70°	47380	29733	21157
75°	39947	17983	11988
80°	30780	7956	4956
85°	17863	2013	2013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.7	4.8
10°-20°	654.5	13.9
20°-30°	946.1	20.1
30°-40°	995.5	21.2
40°-50°	836.9	17.8
50°-60°	587.4	12.5
60°-70°	323.1	6.9
70°-80°	114.7	2.4
80°-90°	15.0	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°	1828.4	38.9
0°-40°	2823.9	60.1
0°-60°	4248.1	90.4
0°-90°	4701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4701.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2399	2399	2399	2399	2399	
5°	2415	2408	2393	2383	2377	231
15°	2430	2390	2298	2270	2276	686
25°	2251	2138	1987	1990	2025	1030
35°	1745	1644	1525	1556	1582	1082
45°	1113	1082	1053	1078	1091	873
55°	704	667	638	638	635	634
65°	415	371	318	261	261	413
75°	189	151	85	57	57	203
85°	28	16	3	3	3	39
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°	2399.1	2399.1	2399.1	2399.1	2399.1	2399.1	2399.1	2399.1	2399.1
2.5°	2399.1	2399.1	2396.0	2396.0	2389.6	2389.6	2386.5	2386.5	2386.5
5°	2414.8	2414.8	2408.5	2399.1	2392.8	2383.4	2383.4	2380.3	2377.1
7.5°	2424.2	2421.2	2411.7	2399.1	2383.4	2367.6	2361.4	2364.6	2361.4
10°	2421.2	2414.8	2402.3	2377.1	2358.2	2336.2	2333.0	2329.9	2333.0
12.5°	2427.4	2418.0	2392.8	2361.4	2329.9	2304.8	2301.7	2301.7	2304.8
15°	2430.5	2421.2	2389.6	2342.5	2298.5	2273.3	2270.1	2273.3	2276.5
17.5°	2421.2	2408.5	2361.4	2298.5	2248.2	2223.0	2223.0	2229.2	2235.6
20°	2386.5	2367.6	2301.7	2226.2	2169.6	2150.8	2157.0	2169.6	2175.8
22.5°	2323.7	2301.7	2226.2	2141.3	2081.5	2065.8	2081.5	2097.2	2103.5
25°	2251.3	2226.2	2138.1	2050.1	1987.2	1968.3	1990.4	2015.4	2024.9
27.5°	2153.8	2125.6	2043.8	1943.2	1880.2	1870.9	1896.1	1924.3	1930.6
30°	2037.5	2006.1	1914.9	1820.5	1763.9	1760.9	1789.1	1814.3	1823.6
32.5°	1896.1	1867.7	1789.1	1694.8	1644.5	1644.5	1672.8	1694.8	1704.1
35°	1745.0	1713.6	1644.5	1565.9	1525.0	1528.1	1556.4	1572.1	1581.6
37.5°	1565.9	1556.4	1503.0	1436.9	1408.7	1414.9	1436.9	1449.6	1458.9
40°	1421.2	1396.0	1361.5	1308.1	1289.2	1295.4	1317.4	1330.1	1336.3
42.5°	1264.0	1248.3	1219.9	1182.2	1169.7	1179.1	1197.9	1207.4	1204.2
45°	1113.1	1109.9	1081.6	1059.7	1053.4	1065.9	1078.5	1087.9	1091.1
47.5°	1003.0	990.4	965.2	949.5	943.3	955.9	968.4	974.7	974.7
50°	896.1	883.6	858.4	842.7	836.4	848.9	858.4	864.7	858.4
52.5°	789.2	776.6	754.6	735.7	732.6	738.9	742.1	745.2	751.4
55°	704.3	691.7	666.6	644.6	638.3	641.4	638.3	638.3	635.1
57.5°	622.6	610.0	584.8	559.7	550.3	547.1	537.6	534.6	531.4
60°	550.3	534.6	509.4	481.0	468.5	456.0	440.2	430.8	430.8
62.5°	481.0	465.3	437.1	411.9	393.1	371.0	345.8	333.3	333.3
65°	415.1	402.4	371.0	342.7	317.6	289.3	261.0	254.7	261.0
67.5°	352.2	339.6	308.1	279.9	248.4	213.8	188.6	188.6	194.9
70°	295.6	282.9	254.7	220.1	185.5	150.9	132.0	132.0	132.0
72.5°	242.2	229.5	198.1	166.6	132.0	97.5	88.0	91.1	88.0
75°	188.6	179.3	150.9	116.3	84.9	59.8	56.6	53.4	56.6
77.5°	141.5	132.0	107.0	75.4	47.2	34.6	31.4	31.4	31.4
80°	97.5	88.0	69.1	44.1	25.2	15.7	15.7	15.7	15.7
82.5°	59.8	50.3	37.7	22.0	9.5	9.5	9.5	9.5	9.5
85°	28.4	22.0	15.7	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)