

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: P593245

Luminaire Tested: **HC635D010-HM63040850-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593245
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: HC635D010-HM63040850-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4239.4 lumens
Efficiency: N/A
Efficacy: 125.8 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

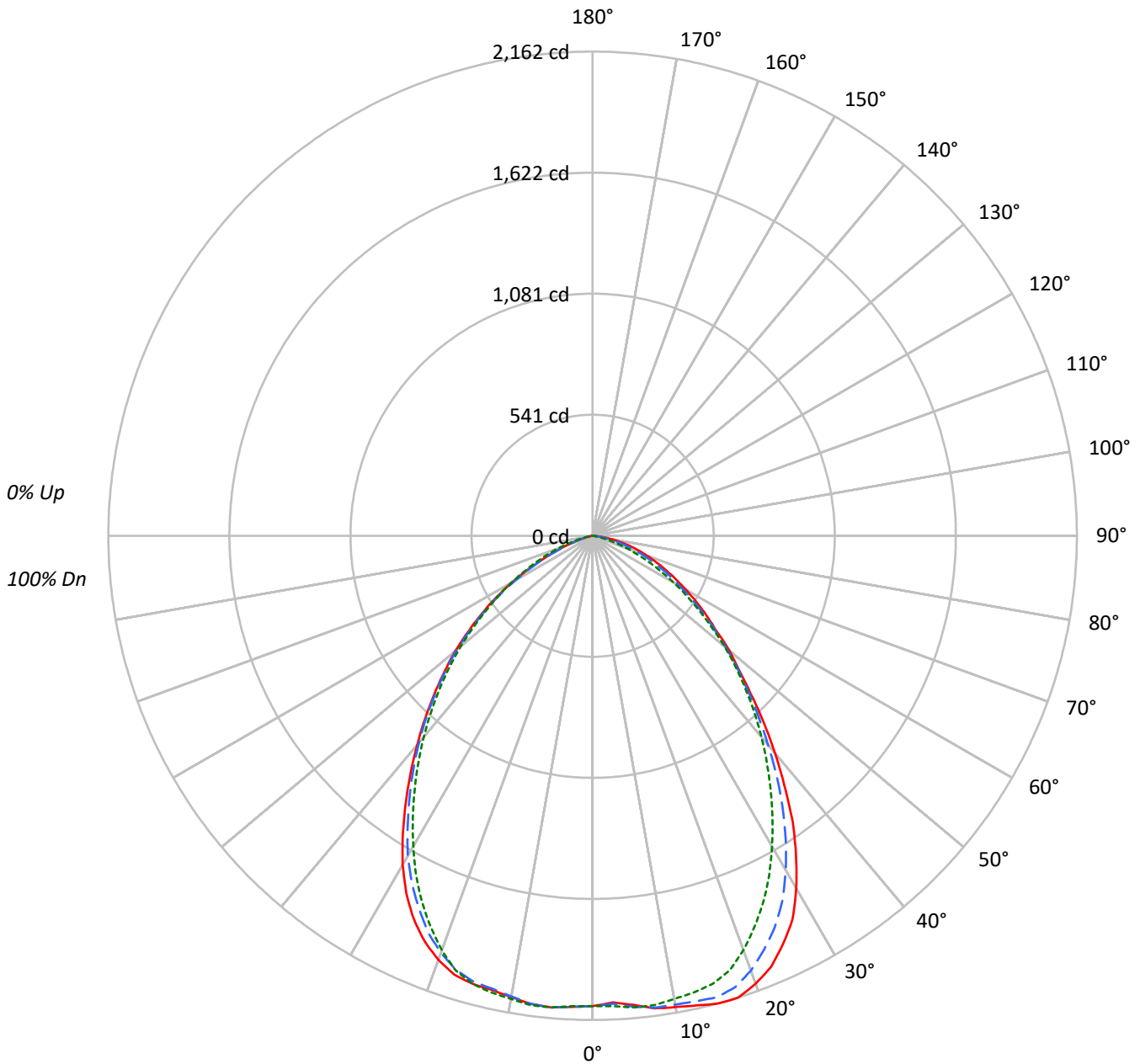
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	115117	115117	115117
5°	115711	116338	116338
10°	118952	116893	116420
15°	122731	117560	117560
20°	124167	114868	117523
25°	121682	109113	114285
30°	115094	101402	107352
35°	104159	92735	97306
40°	90613	83893	87156
45°	77427	74783	77427
50°	67947	65516	68185
55°	59286	55214	57384
60°	52408	45863	45227
65°	46503	36165	31002
70°	41033	25533	18705
75°	34948	14467	9044
80°	26045	4483	2683
85°	14341	1761	1761



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.4	4.8
10°-20°	589.3	13.9
20°-30°	860.7	20.3
30°-40°	902.7	21.3
40°-50°	760.5	17.9
50°-60°	532.8	12.6
60°-70°	285.7	6.7
70°-80°	95.8	2.3
80°-90°	10.4	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°	1651.5	39.0
0°-40°	2554.2	60.2
0°-60°	3847.5	90.8
0°-90°	4239.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4239.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2100	2100	2100	2100	2100	
5°	2103	2111	2114	2114	2114	202
15°	2162	2134	2071	2060	2071	610
25°	2012	1926	1804	1835	1889	922
35°	1556	1477	1386	1426	1454	966
45°	999	982	965	990	999	778
55°	620	600	578	589	600	558
65°	358	327	279	230	239	358
75°	165	128	68	43	43	175
85°	23	11	3	3	3	31
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°	2099.9	2099.9	2099.9	2099.9	2099.9	2099.9	2099.9	2099.9	2099.9
2.5°	2085.7	2085.7	2091.4	2097.1	2102.7	2102.7	2105.6	2108.4	2105.6
5°	2102.7	2102.7	2111.2	2114.1	2114.1	2111.2	2114.1	2114.1	2114.1
7.5°	2128.4	2122.7	2125.5	2119.9	2114.1	2111.2	2108.4	2108.4	2108.4
10°	2136.9	2131.2	2125.5	2114.1	2099.9	2091.4	2088.5	2091.4	2091.4
12.5°	2148.2	2142.6	2128.4	2105.6	2088.5	2074.2	2071.4	2077.1	2077.1
15°	2162.5	2156.8	2134.1	2097.1	2071.4	2057.2	2060.1	2065.7	2071.4
17.5°	2162.5	2151.1	2114.1	2065.7	2034.4	2020.2	2031.6	2045.9	2054.4
20°	2128.4	2116.9	2065.7	2006.0	1969.0	1960.4	1980.4	2006.0	2014.5
22.5°	2082.9	2060.1	2000.4	1929.2	1889.4	1889.4	1917.7	1949.1	1960.4
25°	2011.7	1994.6	1926.4	1843.9	1803.9	1801.1	1835.2	1877.9	1889.4
27.5°	1932.0	1909.2	1835.2	1749.9	1707.2	1710.1	1747.1	1789.7	1801.1
30°	1818.2	1789.7	1724.2	1641.7	1601.9	1613.4	1650.4	1681.6	1695.9
32.5°	1690.2	1664.5	1604.7	1528.0	1493.9	1505.2	1536.5	1564.9	1576.4
35°	1556.4	1528.0	1476.7	1408.5	1385.7	1397.1	1425.5	1448.2	1454.0
37.5°	1405.7	1385.7	1348.7	1294.7	1277.6	1291.8	1314.5	1328.7	1334.5
40°	1266.2	1249.2	1217.9	1178.0	1172.3	1183.7	1206.4	1215.0	1217.9
42.5°	1129.7	1115.4	1095.5	1067.0	1067.0	1078.4	1098.3	1104.0	1106.9
45°	998.7	990.2	981.7	958.9	964.6	978.8	990.2	998.7	998.7
47.5°	884.9	887.7	876.4	859.3	865.0	879.2	887.7	896.3	896.3
50°	796.7	788.2	776.8	759.7	768.2	779.7	791.0	796.7	799.5
52.5°	694.2	691.4	682.9	663.0	668.7	674.4	685.7	694.2	697.2
55°	620.3	611.7	600.4	577.7	577.7	583.3	589.0	594.7	600.4
57.5°	549.2	540.7	523.5	498.0	495.0	495.0	492.2	498.0	506.5
60°	478.0	475.2	449.5	426.8	418.3	409.7	398.3	401.2	412.5
62.5°	415.5	409.7	387.0	358.5	341.5	327.2	313.0	310.2	321.5
65°	358.5	352.8	327.2	298.8	278.8	253.2	230.5	230.5	239.0
67.5°	307.3	296.0	273.2	241.8	216.2	185.0	162.2	167.9	170.7
70°	256.0	247.5	222.0	190.7	159.3	128.0	113.8	116.7	116.7
72.5°	210.5	199.2	173.5	142.3	111.0	82.5	76.8	74.0	74.0
75°	165.0	153.7	128.0	96.7	68.3	48.3	42.7	42.7	42.7
77.5°	119.5	111.0	88.2	59.8	37.0	22.8	20.0	17.0	17.0
80°	82.5	74.0	54.0	31.3	14.2	8.5	8.5	8.5	8.5
82.5°	48.3	39.8	25.6	14.2	5.7	2.8	2.8	2.8	2.8
85°	22.8	17.0	11.4	5.7	2.8	2.8	2.8	2.8	2.8
87.5°	2.8	2.8	2.8	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)