

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: P593246

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593246
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: HC635D010-HM63040850-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4253.6 lumens
Efficiency: N/A
Efficacy: 126.2 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

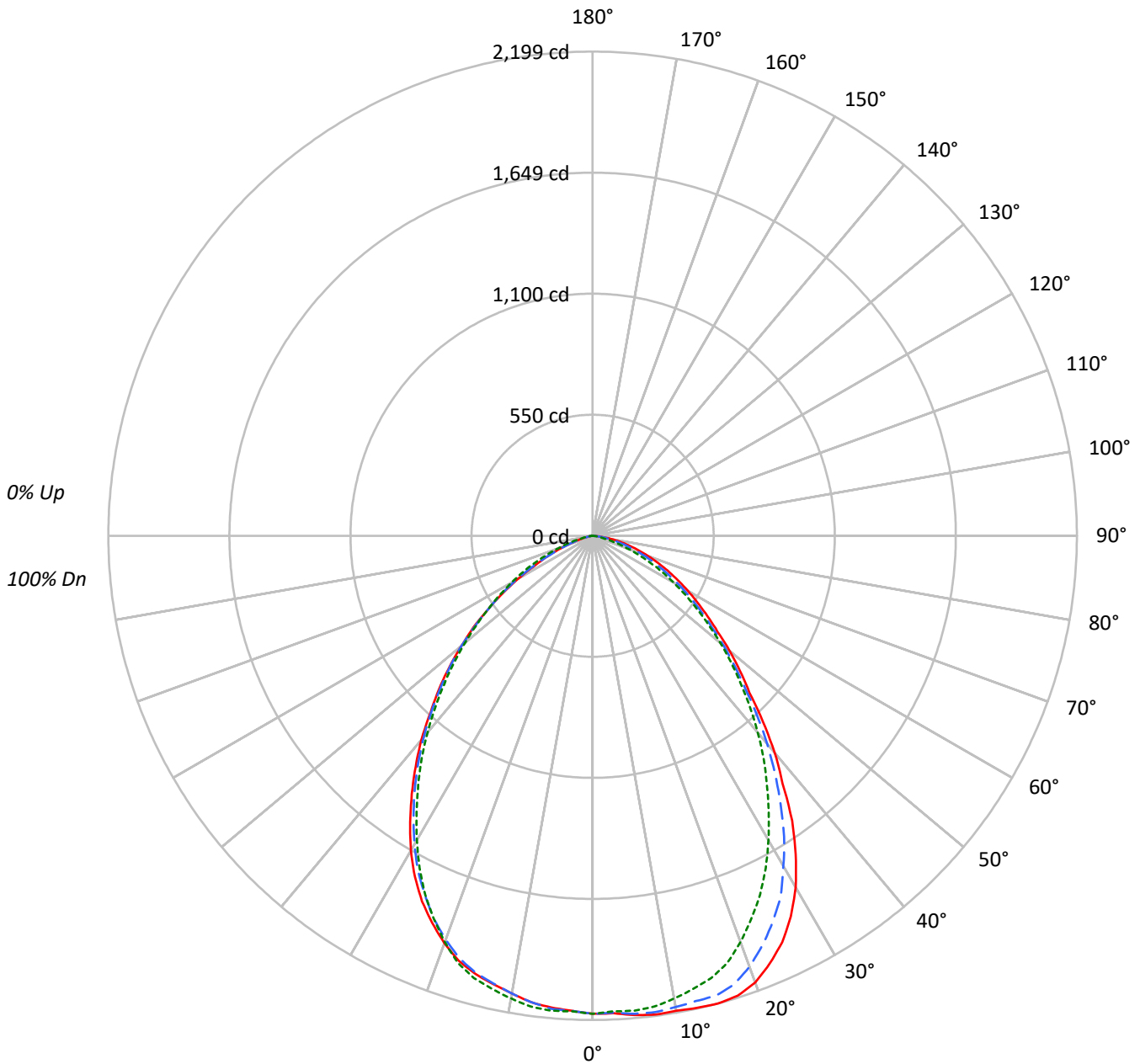
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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				100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77				77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67				67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47				47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42				42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38				38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35				35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	119009	119009	119009
5°	120240	119145	118363
10°	121947	118785	117516
15°	124813	118031	116908
20°	125976	114524	114857
25°	123219	108762	110825
30°	116702	101035	104453
35°	105678	92347	95774
40°	92030	83478	86526
45°	78078	73891	76543
50°	69149	64544	66249
55°	60911	55195	54928
60°	54579	46488	42738
65°	48708	37267	30626
70°	42876	26896	19154
75°	36156	16267	10845
80°	27844	7198	4483
85°	16102	1761	1761



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.1	4.8
10°-20°	592.2	13.9
20°-30°	856.1	20.1
30°-40°	900.8	21.2
40°-50°	757.3	17.8
50°-60°	531.5	12.5
60°-70°	292.4	6.9
70°-80°	103.8	2.4
80°-90°	13.6	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°	1654.4	38.9
0°-40°	2555.2	60.1
0°-60°	3843.9	90.4
0°-90°	4253.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4253.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2171	2171	2171	2171	2171	
5°	2185	2179	2165	2157	2151	209
15°	2199	2162	2080	2054	2060	621
25°	2037	1935	1798	1801	1832	932
35°	1579	1488	1380	1408	1431	979
45°	1007	979	953	976	987	790
55°	637	603	578	578	575	574
65°	376	336	287	236	236	374
75°	171	136	77	51	51	183
85°	26	14	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°	2170.9	2170.9	2170.9	2170.9	2170.9	2170.9	2170.9	2170.9	2170.9
2.5°	2170.9	2170.9	2167.9	2167.9	2162.2	2162.2	2159.4	2159.4	2159.4
5°	2185.0	2185.0	2179.4	2170.9	2165.1	2156.6	2156.6	2153.7	2150.9
7.5°	2193.6	2190.7	2182.2	2170.9	2156.6	2142.4	2136.7	2139.5	2136.7
10°	2190.7	2185.0	2173.7	2150.9	2133.9	2113.9	2111.1	2108.2	2111.1
12.5°	2196.4	2187.9	2165.1	2136.7	2108.2	2085.4	2082.6	2082.6	2085.4
15°	2199.2	2190.7	2162.2	2119.6	2079.7	2057.0	2054.2	2057.0	2059.9
17.5°	2190.7	2179.4	2136.7	2079.7	2034.2	2011.4	2011.4	2017.2	2022.9
20°	2159.4	2142.4	2082.6	2014.4	1963.1	1946.1	1951.7	1963.1	1968.8
22.5°	2102.5	2082.6	2014.4	1937.5	1883.4	1869.2	1883.4	1897.7	1903.4
25°	2037.1	2014.4	1934.7	1854.9	1798.1	1781.1	1800.9	1823.7	1832.2
27.5°	1948.9	1923.3	1849.3	1758.3	1701.4	1692.9	1715.6	1741.2	1746.9
30°	1843.6	1815.2	1732.6	1647.3	1596.1	1593.3	1618.9	1641.6	1650.1
32.5°	1715.6	1689.9	1618.9	1533.6	1487.9	1487.9	1513.6	1533.6	1542.1
35°	1579.1	1550.6	1487.9	1416.9	1379.9	1382.7	1408.3	1422.6	1431.1
37.5°	1416.9	1408.3	1359.9	1300.2	1274.6	1280.3	1300.2	1311.6	1320.1
40°	1286.0	1263.2	1231.9	1183.6	1166.5	1172.1	1192.1	1203.5	1209.1
42.5°	1143.8	1129.5	1103.9	1069.8	1058.4	1066.9	1084.0	1092.5	1089.6
45°	1007.1	1004.3	978.8	958.8	953.1	964.5	975.8	984.4	987.3
47.5°	907.6	896.3	873.5	859.3	853.5	864.9	876.3	882.0	882.0
50°	810.8	799.5	776.8	762.5	756.8	768.1	776.8	782.4	776.8
52.5°	714.1	702.8	682.8	665.8	662.9	668.6	671.5	674.3	680.0
55°	637.3	625.9	603.1	583.3	577.5	580.3	577.5	577.5	574.7
57.5°	563.3	552.0	529.2	506.5	497.8	495.0	486.5	483.7	480.8
60°	497.8	483.7	460.8	435.3	424.0	412.5	398.3	389.8	389.8
62.5°	435.3	421.1	395.5	372.7	355.6	335.7	313.0	301.6	301.6
65°	375.5	364.2	335.7	310.1	287.3	261.8	236.1	230.5	236.1
67.5°	318.7	307.3	278.8	253.2	224.8	193.5	170.7	170.7	176.5
70°	267.5	256.0	230.5	199.2	167.8	136.5	119.5	119.5	119.5
72.5°	219.0	207.7	179.3	150.8	119.5	88.2	79.7	82.5	79.7
75°	170.7	162.2	136.5	105.3	76.8	54.0	51.2	48.3	51.2
77.5°	128.0	119.5	96.7	68.3	42.7	31.3	28.5	28.5	28.5
80°	88.2	79.7	62.6	39.8	22.8	14.2	14.2	14.2	14.2
82.5°	54.0	45.5	34.2	20.0	8.5	8.5	8.5	8.5	8.5
85°	25.6	20.0	14.2	5.7	2.8	2.8	2.8	2.8	2.8
87.5°	5.7	5.7	2.8	2.8	0.0	2.8	2.8	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)