

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: P582430

Luminaire Tested: **HC640D010-HM63040827-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582430
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC640D010-HM63040827-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3909.0 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

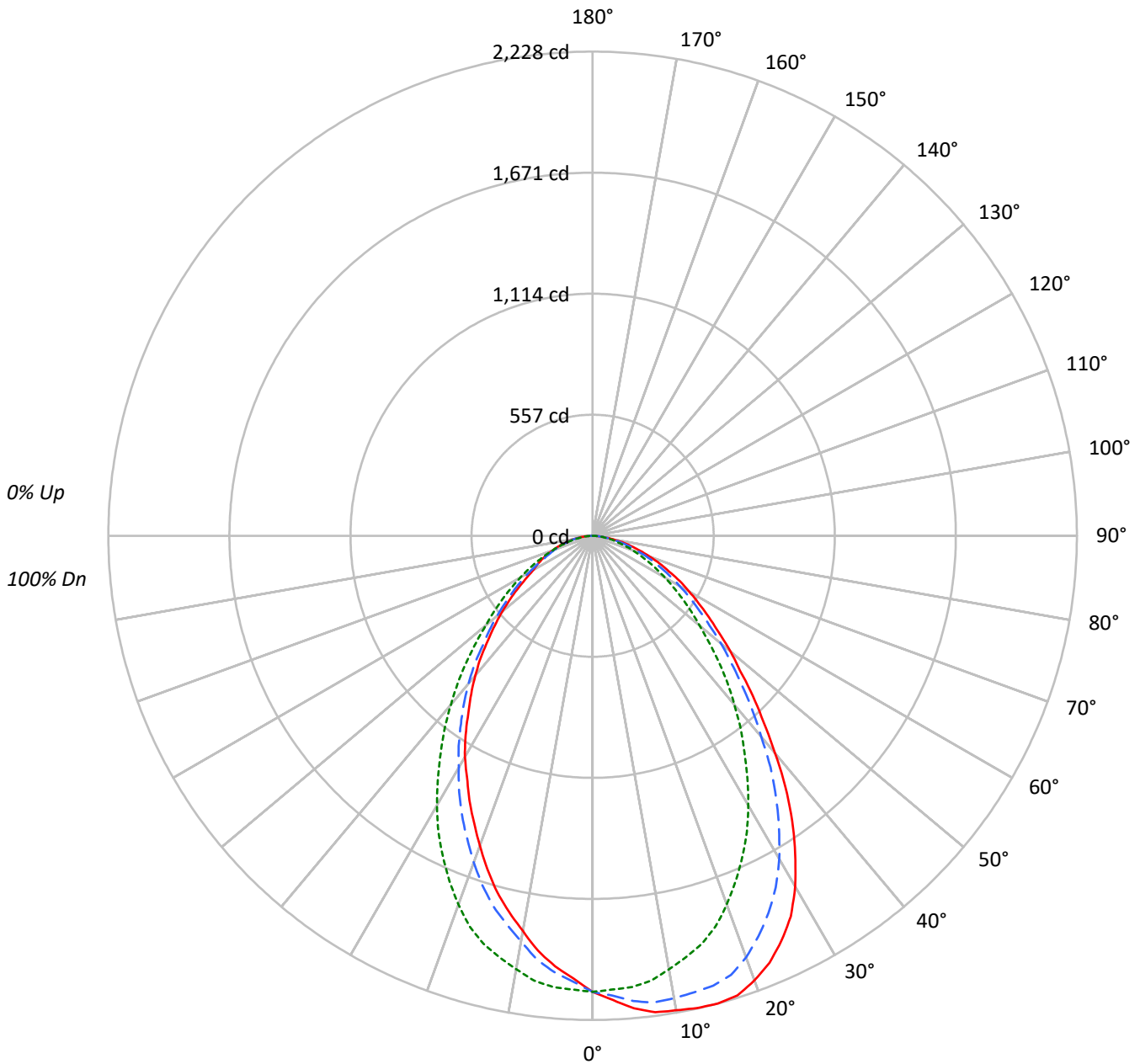
Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76								
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66								
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58								
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51								
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46								
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42								
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38								
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34								
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	115040	115040	115040
5°	120141	114704	109421
10°	123417	112729	102820
15°	126476	110284	96334
20°	127032	105289	88482
25°	124374	98570	81150
30°	117999	90641	74379
35°	107171	81465	66722
40°	93382	72557	60034
45°	80791	63503	52773
50°	70573	54685	46242
55°	62354	48056	39683
60°	56048	42113	34372
65°	50200	36632	33350
70°	44815	31223	31223
75°	38888	26307	29314
80°	31191	22288	26740
85°	21323	19562	23084



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.2	5.0
10°-20°	548.2	14.0
20°-30°	764.1	19.5
30°-40°	787.2	20.1
40°-50°	652.4	16.7
50°-60°	468.9	12.0
60°-70°	298.6	7.6
70°-80°	153.3	3.9
80°-90°	39.0	1.0
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°	1509.5	38.6
0°-40°	2296.8	58.8
0°-60°	3418.1	87.4
0°-90°	3909.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3909.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2098	2098	2098	2098	2098	
5°	2183	2149	2084	2017	1988	209
15°	2228	2144	1943	1765	1697	628
25°	2056	1915	1630	1421	1342	942
35°	1601	1472	1217	1056	997	995
45°	1042	969	819	714	681	807
55°	652	599	503	446	415	588
65°	387	344	282	246	257	388
75°	184	158	124	130	138	196
85°	34	31	31	34	37	43
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°	2098.5	2098.5	2098.5	2098.5	2098.5	2098.5	2098.5	2098.5	2098.5
2.5°	2138.1	2129.5	2118.3	2107.0	2090.1	2070.3	2053.3	2047.6	2039.2
5°	2183.2	2172.0	2149.3	2121.1	2084.4	2047.6	2016.6	1996.8	1988.4
7.5°	2211.4	2197.3	2166.3	2118.3	2064.6	2010.9	1965.7	1937.5	1926.3
10°	2217.1	2203.0	2160.7	2095.6	2025.1	1951.6	1895.1	1861.2	1847.1
12.5°	2225.5	2205.9	2152.2	2076.0	1985.5	1900.8	1830.2	1787.8	1773.7
15°	2228.5	2205.9	2143.6	2050.5	1943.2	1841.5	1765.2	1714.4	1697.4
17.5°	2217.1	2191.7	2118.3	2005.3	1883.8	1776.6	1686.2	1632.5	1609.8
20°	2177.5	2149.3	2064.6	1937.5	1804.8	1691.7	1598.6	1542.2	1516.7
22.5°	2126.8	2090.1	1994.1	1858.5	1720.1	1601.4	1508.3	1451.7	1426.4
25°	2056.2	2022.3	1914.9	1770.9	1629.6	1505.4	1420.7	1361.3	1341.6
27.5°	1974.3	1934.7	1824.6	1680.5	1536.5	1412.3	1330.3	1276.7	1251.2
30°	1864.1	1827.3	1717.2	1573.2	1431.9	1316.1	1231.4	1186.2	1175.0
32.5°	1734.2	1703.1	1595.7	1460.3	1324.7	1217.3	1146.7	1098.7	1087.4
35°	1601.4	1564.7	1471.5	1344.5	1217.3	1121.3	1056.3	1013.9	997.0
37.5°	1457.4	1423.5	1344.5	1231.4	1118.5	1028.0	971.6	934.9	917.9
40°	1304.9	1279.4	1206.0	1115.6	1013.9	934.9	886.9	855.8	838.9
42.5°	1163.6	1138.2	1087.4	1002.7	917.9	847.3	805.0	776.8	762.6
45°	1042.1	1019.6	968.8	895.3	819.1	759.7	714.5	694.8	680.7
47.5°	920.8	909.5	864.2	796.4	725.8	675.1	643.9	621.4	610.0
50°	827.5	813.4	771.1	700.4	641.2	601.6	573.4	553.6	542.2
52.5°	731.5	717.4	677.8	618.5	570.5	533.8	505.6	488.6	477.3
55°	652.4	641.2	598.8	545.1	502.8	471.7	446.2	426.4	415.2
57.5°	579.0	567.7	528.1	477.3	440.5	412.3	389.8	372.9	358.6
60°	511.2	502.8	463.2	415.2	384.1	355.9	336.1	322.0	313.5
62.5°	451.9	435.0	401.1	358.6	330.4	307.9	288.1	279.6	285.3
65°	387.0	378.4	344.5	307.9	282.4	259.8	245.7	251.4	257.1
67.5°	333.3	322.0	293.7	259.8	237.3	220.3	211.8	223.2	225.9
70°	279.6	268.3	243.0	214.6	194.8	183.6	183.6	192.0	194.8
72.5°	228.7	220.3	197.7	175.2	161.0	152.5	158.1	163.8	166.6
75°	183.6	175.2	158.1	138.4	124.2	124.2	129.9	135.6	138.4
77.5°	141.3	135.6	118.6	104.5	98.8	98.8	104.5	107.4	110.1
80°	98.8	93.3	84.7	76.2	70.6	76.2	81.9	81.9	84.7
82.5°	64.9	62.1	56.5	50.8	50.8	53.7	56.5	59.4	59.4
85°	33.9	33.9	31.1	28.2	31.1	33.9	33.9	36.7	36.7
87.5°	11.3	11.3	11.3	11.3	14.1	14.1	14.1	14.1	14.1
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)