

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: P582503

Luminaire Tested: **HC640D010-HM63040927-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582503
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC640D010-HM63040927-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3417.4 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

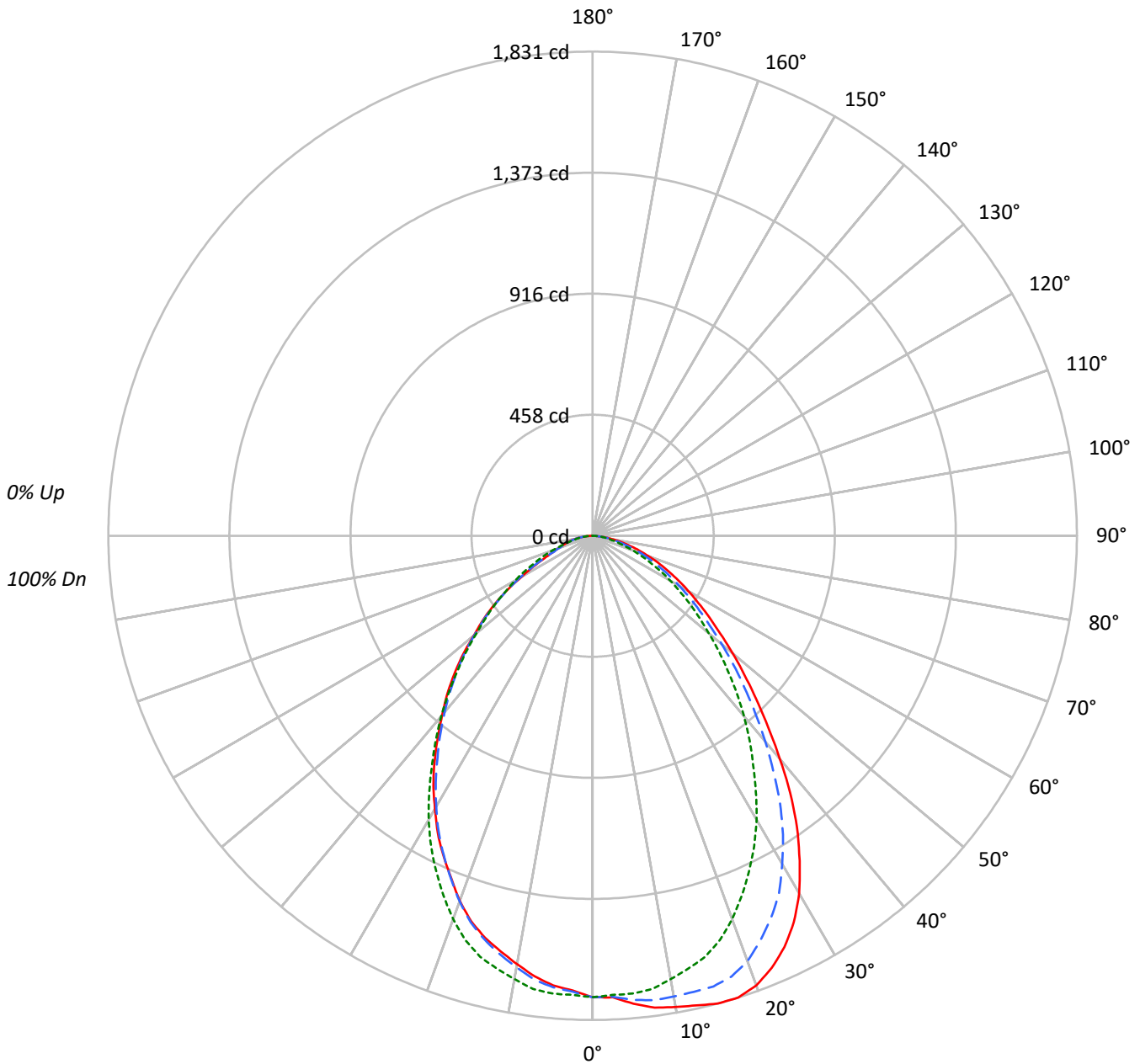
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P582503

CATALOG NUMBER: HC640D010-HM63040927-61WWWB

Luminous Intensity Polar Plot





TEST NUMBER: P582503

CATALOG NUMBER: HC640D010-HM63040927-61WWWB

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				100				
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76				76				
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66				66				
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58				58				
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52				52				
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46				46				
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42				42				
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38				38				
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34				34				
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31				31				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	95661	95661	95661
5°	97733	95636	93930
10°	100722	94754	91565
15°	103911	93491	89297
20°	105558	89981	85676
25°	103821	84652	80757
30°	98851	78474	75455
35°	90145	70838	69714
40°	78819	63641	63297
45°	67829	55998	57293
50°	58966	48800	49815
55°	51496	42837	43286
60°	45742	37124	33989
65°	40821	31223	25969
70°	35920	25597	21783
75°	30818	20207	20694
80°	24814	17332	20331
85°	16480	15033	17989



TEST NUMBER: P582503

CATALOG NUMBER: HC640D010-HM63040927-61WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.2	4.8
10°-20°	470.4	13.8
20°-30°	671.5	19.6
30°-40°	703.3	20.6
40°-50°	592.2	17.3
50°-60°	421.5	12.3
60°-70°	246.7	7.2
70°-80°	116.7	3.4
80°-90°	30.0	0.9
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°	1307.0	38.2
0°-40°	2010.4	58.8
0°-60°	3024.0	88.5
0°-90°	3417.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3417.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1745	1745	1745	1745	1745	
5°	1776	1762	1738	1714	1707	171
15°	1831	1764	1647	1581	1573	517
25°	1716	1595	1400	1333	1335	786
35°	1347	1235	1058	1023	1042	837
45°	875	810	722	725	739	679
55°	539	493	448	448	453	486
65°	315	279	241	203	200	314
75°	146	122	95	93	98	156
85°	26	22	24	29	29	34
90°	0	0	0	0	0	



TEST NUMBER: P582503

CATALOG NUMBER: HC640D010-HM63040927-61WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0
2.5°	1747.4	1747.4	1745.0	1742.7	1737.9	1730.8	1726.0	1721.3	1721.3
5°	1776.0	1771.3	1761.8	1749.8	1737.9	1723.7	1714.0	1706.9	1706.9
7.5°	1799.9	1790.4	1771.3	1749.8	1728.4	1709.3	1692.7	1683.0	1680.7
10°	1809.4	1797.5	1768.9	1735.5	1702.2	1675.9	1656.9	1644.9	1644.9
12.5°	1819.0	1804.7	1766.5	1718.8	1675.9	1640.2	1621.1	1611.6	1609.2
15°	1830.9	1811.8	1764.2	1704.5	1647.3	1606.8	1580.6	1573.4	1573.4
17.5°	1830.9	1807.0	1747.4	1673.5	1602.1	1556.7	1532.9	1525.7	1528.2
20°	1809.4	1783.2	1711.7	1621.1	1542.4	1494.7	1470.9	1466.2	1468.6
22.5°	1768.9	1737.9	1656.9	1559.1	1473.3	1423.2	1401.8	1401.8	1399.5
25°	1716.4	1683.0	1594.9	1492.3	1399.5	1349.3	1332.6	1335.1	1335.1
27.5°	1647.3	1613.9	1525.7	1416.1	1323.1	1273.1	1261.1	1265.8	1268.2
30°	1561.6	1525.7	1432.8	1325.5	1239.7	1189.6	1182.5	1189.6	1192.0
32.5°	1456.6	1430.3	1339.8	1230.1	1149.1	1106.1	1103.7	1111.0	1120.5
35°	1347.0	1318.3	1234.8	1134.7	1058.5	1022.8	1022.8	1034.6	1041.7
37.5°	1227.7	1199.1	1122.9	1039.4	975.0	941.6	946.4	958.4	960.8
40°	1101.4	1080.0	1015.6	944.0	889.3	863.0	870.1	882.0	884.5
42.5°	982.3	963.1	910.6	846.3	805.8	786.7	796.3	810.5	815.3
45°	874.9	853.5	810.5	755.8	722.3	712.8	724.8	734.3	739.0
47.5°	777.2	758.2	722.3	672.3	648.4	643.7	655.5	660.4	665.2
50°	691.4	672.3	636.5	591.2	572.2	572.2	581.7	586.4	584.1
52.5°	607.9	591.2	557.8	519.7	507.8	507.8	514.9	517.3	522.1
55°	538.8	522.1	493.4	457.7	448.2	443.4	448.2	448.2	452.9
57.5°	474.4	460.1	433.8	400.4	388.6	383.8	381.5	379.1	383.8
60°	417.2	405.3	376.7	348.1	338.6	326.6	317.1	307.6	310.0
62.5°	364.7	352.8	326.6	298.0	288.5	271.7	259.8	248.0	252.7
65°	314.7	302.7	279.0	255.1	240.7	221.7	202.6	195.5	200.2
67.5°	269.3	259.8	236.0	212.2	200.2	178.9	159.7	159.7	162.1
70°	224.1	214.6	195.5	174.0	159.7	140.6	133.5	135.9	135.9
72.5°	183.6	176.4	157.4	138.2	124.0	112.0	112.0	114.5	116.9
75°	145.5	140.6	121.6	104.9	95.4	88.2	93.0	95.4	97.7
77.5°	112.0	104.9	90.6	78.6	71.5	73.9	78.6	81.1	83.5
80°	78.6	76.2	64.4	57.2	54.9	57.2	62.0	64.4	64.4
82.5°	50.1	47.6	40.5	38.1	38.1	40.5	45.2	45.2	45.2
85°	26.2	23.9	21.5	21.5	23.9	26.2	28.6	28.6	28.6
87.5°	9.5	7.1	9.5	9.5	11.9	11.9	11.9	11.9	11.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)