

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: P582393

Luminaire Tested: **HC635D010-HM63040935-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582393
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC635D010-HM63040935-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3064.6 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

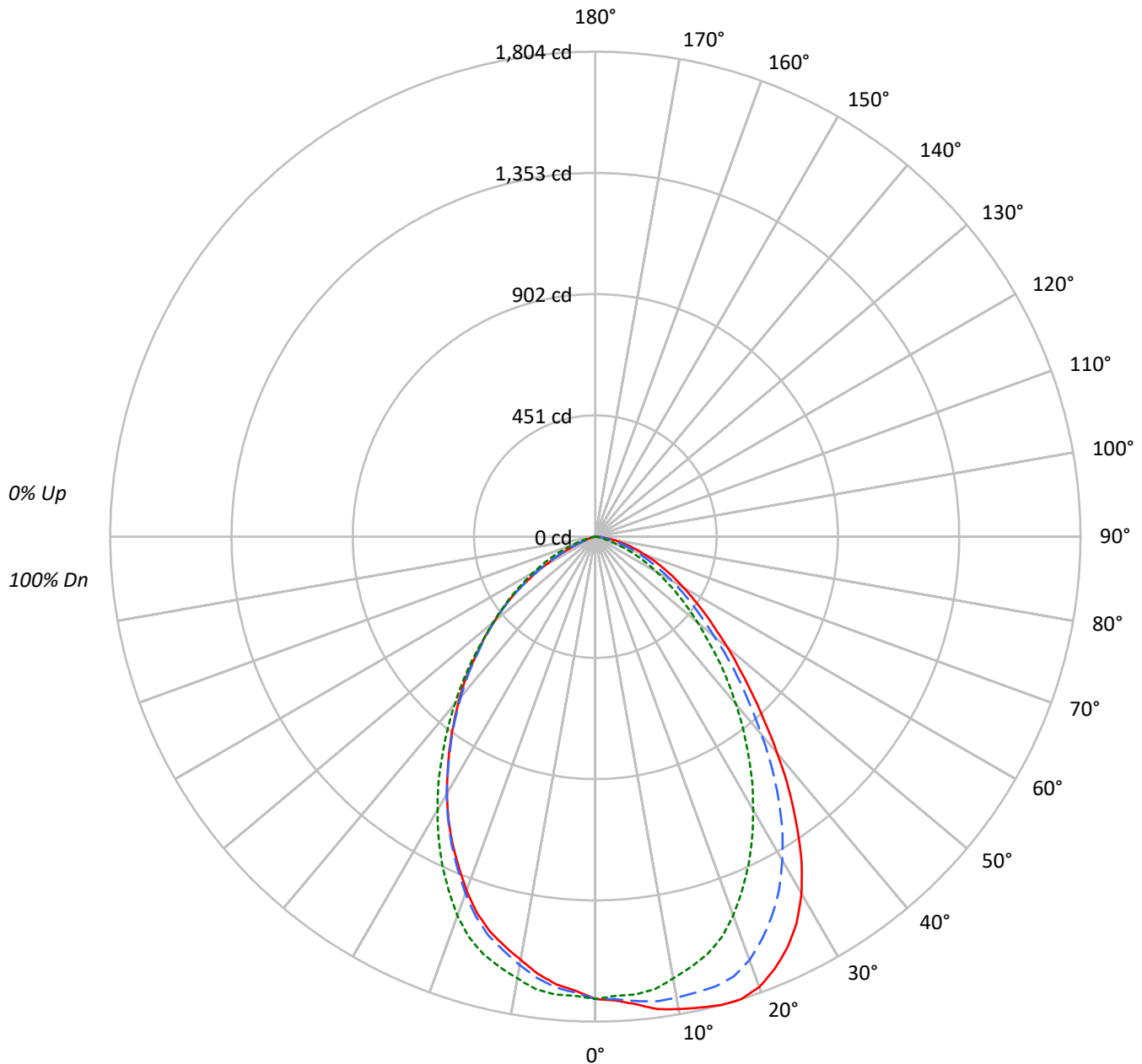
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89		
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78		
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69		
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61		
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54		
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49		
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44		
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40		
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37		
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	94274	94274	94274
5°	96098	94101	91976
10°	99364	92901	88999
15°	102407	91289	86209
20°	103994	87484	81697
25°	102121	81489	76081
30°	97066	74258	69815
35°	87248	66368	62961
40°	75298	58159	56255
45°	63759	50067	48757
50°	54659	42293	41875
55°	47396	35602	34207
60°	41367	28901	24395
65°	36385	22285	13490
70°	31400	14746	6588
75°	26646	7159	2563
80°	20647	3062	1515
85°	12202	1572	1572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.3	5.3
10°-20°	458.9	15.0
20°-30°	646.3	21.1
30°-40°	660.3	21.5
40°-50°	532.4	17.4
50°-60°	357.1	11.7
60°-70°	180.7	5.9
70°-80°	57.8	1.9
80°-90°	8.9	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°	1267.5	41.4
0°-40°	1927.8	62.9
0°-60°	2817.2	91.9
0°-90°	3064.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3064.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1720	1720	1720	1720	1720	
5°	1746	1734	1710	1683	1671	168
15°	1804	1732	1608	1536	1519	509
25°	1688	1555	1347	1265	1258	773
35°	1304	1185	992	936	941	811
45°	822	757	646	624	629	640
55°	496	440	372	356	358	446
65°	280	232	172	114	104	280
75°	126	90	34	12	12	135
85°	19	10	2	2	2	26
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°	1719.7	1719.7	1719.7	1719.7	1719.7	1719.7	1719.7	1719.7	1719.7
2.5°	1726.9	1724.6	1722.1	1717.2	1710.0	1702.8	1698.0	1693.1	1690.7
5°	1746.3	1741.5	1734.3	1724.6	1710.0	1693.1	1683.4	1673.7	1671.4
7.5°	1772.9	1763.2	1743.8	1722.1	1698.0	1673.7	1656.8	1647.1	1639.9
10°	1785.0	1768.1	1741.5	1705.2	1668.9	1639.9	1618.2	1603.6	1598.8
12.5°	1794.7	1775.4	1736.6	1688.3	1639.9	1601.2	1577.0	1564.9	1560.0
15°	1804.4	1785.0	1731.8	1668.9	1608.5	1562.5	1535.9	1523.8	1519.0
17.5°	1804.4	1777.8	1714.9	1635.1	1562.5	1506.8	1480.2	1468.2	1465.8
20°	1782.6	1753.5	1676.2	1581.9	1499.6	1436.7	1412.5	1405.3	1400.4
22.5°	1741.5	1707.7	1620.5	1514.2	1424.7	1364.1	1337.5	1332.7	1327.9
25°	1688.3	1654.5	1555.3	1441.6	1347.2	1286.7	1265.0	1260.1	1257.8
27.5°	1620.5	1584.3	1480.2	1364.1	1262.6	1204.6	1185.2	1185.2	1182.8
30°	1533.4	1492.4	1390.7	1274.7	1173.1	1119.9	1105.4	1105.4	1102.9
32.5°	1427.0	1385.9	1294.0	1182.8	1086.0	1030.3	1018.3	1023.1	1020.7
35°	1303.7	1269.8	1185.2	1076.3	991.7	940.8	936.1	940.8	940.8
37.5°	1180.3	1148.9	1076.3	982.0	902.2	856.2	856.2	863.5	861.0
40°	1052.2	1028.0	960.2	878.1	812.7	781.3	776.4	783.6	786.1
42.5°	931.3	911.9	853.8	786.1	728.1	696.6	703.8	708.7	711.1
45°	822.4	803.0	757.0	686.9	645.8	624.0	624.0	631.2	628.9
47.5°	725.6	711.1	665.2	597.4	561.1	551.5	556.3	561.1	561.1
50°	640.9	619.2	575.7	522.5	495.9	483.7	488.6	491.0	491.0
52.5°	561.1	546.6	503.1	454.7	430.5	423.3	423.3	425.7	425.7
55°	495.9	478.9	440.2	391.9	372.5	362.8	355.6	353.1	357.9
57.5°	433.0	418.5	382.2	336.2	314.4	304.7	290.2	285.4	290.2
60°	377.3	365.3	329.0	285.4	263.6	244.3	227.3	217.6	222.5
62.5°	329.0	314.4	278.1	241.9	217.6	195.9	169.3	154.7	162.1
65°	280.5	268.5	232.2	195.9	171.8	145.2	113.7	104.0	104.0
67.5°	237.0	225.0	191.0	159.6	130.6	99.2	70.1	67.7	70.1
70°	195.9	183.8	154.7	123.4	92.0	60.5	41.1	41.1	41.1
72.5°	162.1	147.5	120.9	89.5	58.0	31.4	21.8	24.2	24.2
75°	125.8	113.7	89.5	60.5	33.8	14.5	12.1	12.1	12.1
77.5°	94.3	84.6	62.9	38.7	16.9	4.8	4.8	4.8	4.8
80°	65.4	55.7	41.1	24.2	9.7	4.8	4.8	4.8	4.8
82.5°	38.7	33.8	24.2	12.1	4.8	2.5	2.5	2.5	2.5
85°	19.4	16.9	9.7	4.8	2.5	2.5	2.5	2.5	2.5
87.5°	4.8	4.8	2.5	2.5	0.0	2.5	2.5	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)