

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: P582395

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582395
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: HC635D010-HM63040935-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3466.1 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

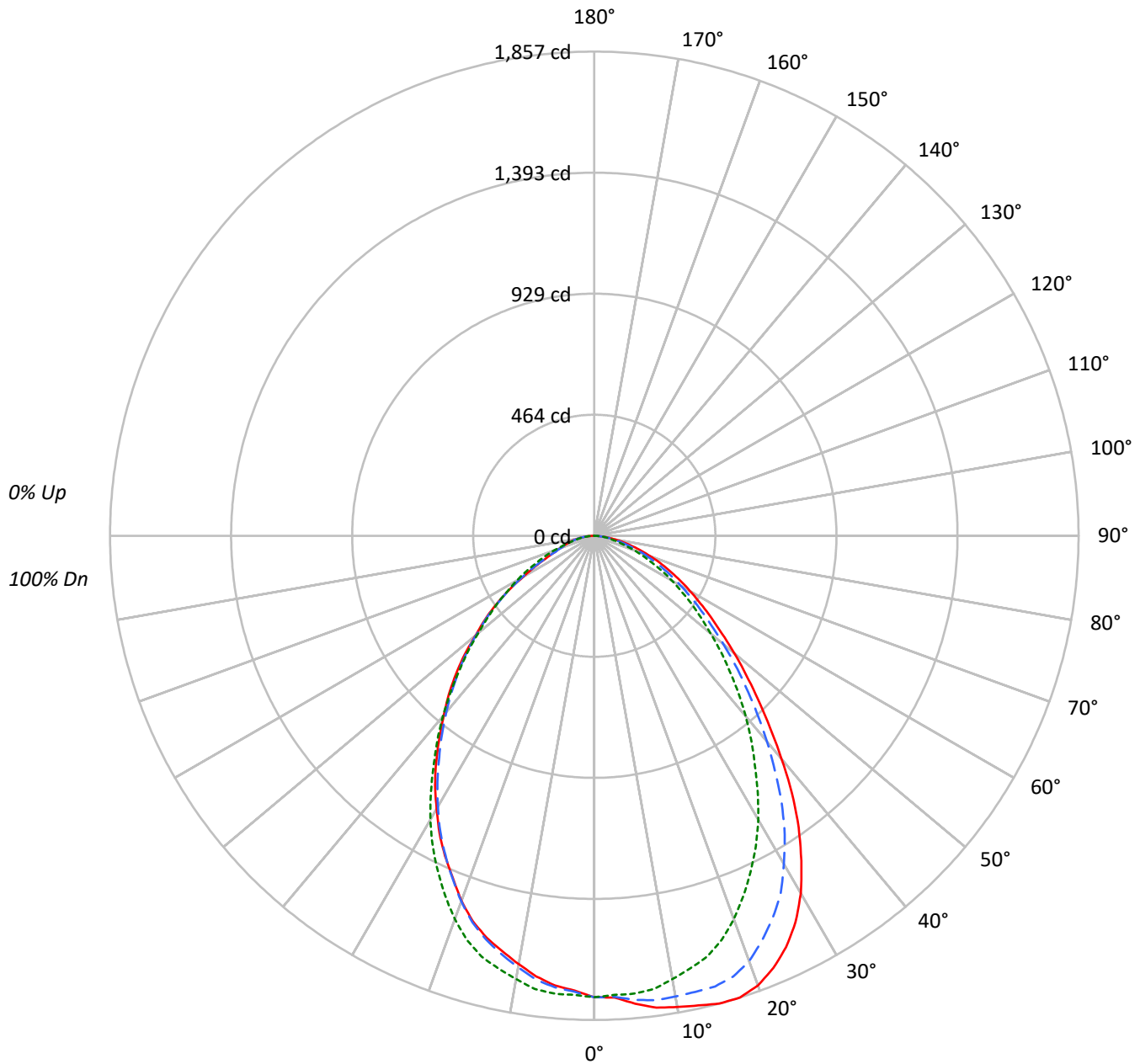
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	97026	97026	97026
5°	99130	96995	95267
10°	102158	96096	92867
15°	105387	94825	90568
20°	107063	91265	86889
25°	105302	85850	81906
30°	100250	79588	76524
35°	91424	71842	70711
40°	79943	64542	64199
45°	68798	56797	58115
50°	59793	49491	50523
55°	52223	43439	43908
60°	46400	37640	34460
65°	41405	31690	26345
70°	36432	25966	22087
75°	31242	20482	20990
80°	25193	17584	20583
85°	16731	15222	18304



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.6	4.8
10°-20°	477.1	13.8
20°-30°	681.0	19.6
30°-40°	713.3	20.6
40°-50°	600.6	17.3
50°-60°	427.5	12.3
60°-70°	250.2	7.2
70°-80°	118.4	3.4
80°-90°	30.5	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°	1325.6	38.2
0°-40°	2039.0	58.8
0°-60°	3067.0	88.5
0°-90°	3466.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3466.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1770	1770	1770	1770	1770	
5°	1801	1787	1763	1738	1731	173
15°	1857	1789	1671	1603	1596	524
25°	1741	1618	1419	1352	1354	797
35°	1366	1252	1074	1037	1057	848
45°	887	822	733	735	750	689
55°	546	500	454	454	459	492
65°	319	283	244	206	203	318
75°	148	123	97	94	99	158
85°	27	22	24	29	29	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°	1769.9	1769.9	1769.9	1769.9	1769.9	1769.9	1769.9	1769.9	1769.9
2.5°	1772.3	1772.3	1769.9	1767.5	1762.6	1755.4	1750.5	1745.7	1745.7
5°	1801.4	1796.5	1786.8	1774.8	1762.6	1748.2	1738.5	1731.2	1731.2
7.5°	1825.5	1815.9	1796.5	1774.8	1753.0	1733.6	1716.7	1707.1	1704.6
10°	1835.2	1823.1	1794.0	1760.2	1726.3	1699.7	1680.5	1668.3	1668.3
12.5°	1844.9	1830.3	1791.7	1743.3	1699.7	1663.6	1644.2	1634.5	1632.0
15°	1856.9	1837.6	1789.2	1728.8	1670.8	1629.7	1603.1	1595.8	1595.8
17.5°	1856.9	1832.8	1772.3	1697.4	1624.8	1578.8	1554.7	1547.4	1549.9
20°	1835.2	1808.6	1736.0	1644.2	1564.4	1516.0	1491.9	1487.0	1489.4
22.5°	1794.0	1762.6	1680.5	1581.3	1494.2	1443.5	1421.8	1421.8	1419.3
25°	1740.9	1707.1	1617.6	1513.6	1419.3	1368.5	1351.6	1354.1	1354.1
27.5°	1670.8	1637.0	1547.4	1436.2	1341.9	1291.2	1279.0	1283.9	1286.3
30°	1583.7	1547.4	1453.1	1344.4	1257.3	1206.6	1199.3	1206.6	1208.9
32.5°	1477.3	1450.7	1358.9	1247.6	1165.5	1122.0	1119.5	1126.7	1136.4
35°	1366.1	1337.1	1252.4	1150.9	1073.5	1037.2	1037.2	1049.4	1056.6
37.5°	1245.2	1216.2	1138.9	1054.2	988.9	955.1	959.9	972.0	974.4
40°	1117.1	1095.3	1030.0	957.5	901.9	875.2	882.5	894.6	897.1
42.5°	996.2	976.8	923.7	858.3	817.3	797.9	807.6	822.0	826.9
45°	887.4	865.6	822.0	766.5	732.6	723.0	735.1	744.7	749.6
47.5°	788.2	768.9	732.6	681.9	657.7	652.8	665.0	669.7	674.6
50°	701.1	681.9	645.6	599.6	580.3	580.3	589.9	594.8	592.4
52.5°	616.5	599.6	565.8	527.1	515.0	515.0	522.2	524.7	529.5
55°	546.4	529.5	500.5	464.2	454.5	449.8	454.5	454.5	459.4
57.5°	481.2	466.7	440.1	406.2	394.1	389.3	386.9	384.4	389.3
60°	423.2	411.0	382.1	353.0	343.3	331.2	321.6	311.9	314.3
62.5°	369.9	357.8	331.2	302.3	292.6	275.6	263.5	251.5	256.3
65°	319.2	307.0	282.9	258.7	244.3	224.9	205.5	198.3	203.1
67.5°	273.2	263.5	239.4	215.2	203.1	181.4	162.0	162.0	164.4
70°	227.3	217.6	198.3	176.5	162.0	142.6	135.4	137.8	137.8
72.5°	186.1	178.9	159.5	140.3	125.7	113.7	113.7	116.1	118.5
75°	147.5	142.6	123.4	106.4	96.7	89.5	94.3	96.7	99.1
77.5°	113.7	106.4	91.8	79.8	72.6	74.9	79.8	82.2	84.6
80°	79.8	77.4	65.2	58.0	55.7	58.0	62.9	65.2	65.2
82.5°	50.8	48.3	41.1	38.7	38.7	41.1	46.0	46.0	46.0
85°	26.6	24.2	21.7	21.7	24.2	26.6	29.1	29.1	29.1
87.5°	9.7	7.2	9.7	9.7	12.1	12.1	12.1	12.1	12.1
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)