

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: P582297

Luminaire Tested: **HC635D010-HM63040830-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582297
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-HM63040830-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3901.1 lumens
Efficiency: N/A
Efficacy: 115.8 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

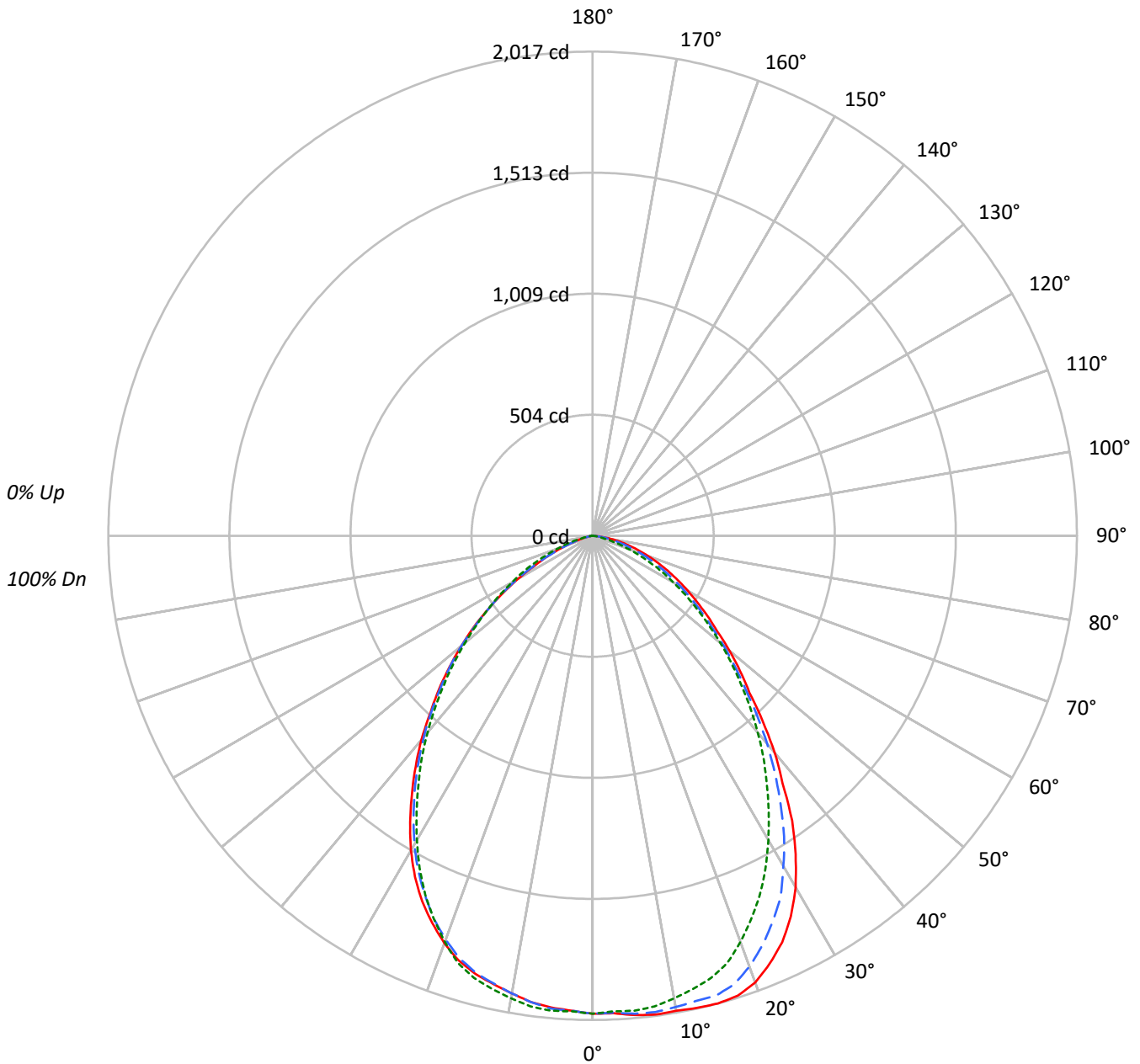
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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°	109141	109141	109141
5°	110279	109272	108551
10°	111838	108933	107775
15°	114467	108247	107214
20°	115533	105032	105336
25°	113009	99750	101643
30°	107035	92660	95800
35°	96911	84691	87830
40°	84401	76558	79363
45°	71612	67767	70201
50°	63418	59188	60749
55°	55855	50627	50369
60°	50062	42617	39196
65°	44674	34180	28096
70°	39318	24668	17567
75°	33169	14933	9934
80°	25540	6598	4136
85°	14781	1635	1635



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.0	4.8
10°-20°	543.1	13.9
20°-30°	785.1	20.1
30°-40°	826.1	21.2
40°-50°	694.5	17.8
50°-60°	487.4	12.5
60°-70°	268.1	6.9
70°-80°	95.2	2.4
80°-90°	12.5	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°	1517.2	38.9
0°-40°	2343.4	60.1
0°-60°	3525.3	90.4
0°-90°	3901.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3901.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1991	1991	1991	1991	1991	
5°	2004	1999	1986	1978	1973	191
15°	2017	1983	1907	1884	1889	569
25°	1868	1774	1649	1652	1680	855
35°	1448	1365	1266	1292	1312	898
45°	924	898	874	895	906	725
55°	584	553	530	530	527	526
65°	344	308	264	217	217	343
75°	157	125	70	47	47	168
85°	24	13	3	3	3	32
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°	1990.9	1990.9	1990.9	1990.9	1990.9	1990.9	1990.9	1990.9	1990.9
2.5°	1990.9	1990.9	1988.2	1988.2	1983.1	1983.1	1980.4	1980.4	1980.4
5°	2004.0	2004.0	1998.7	1990.9	1985.7	1977.8	1977.8	1975.3	1972.6
7.5°	2011.8	2009.1	2001.3	1990.9	1977.8	1964.8	1959.5	1962.2	1959.5
10°	2009.1	2004.0	1993.5	1972.6	1956.9	1938.7	1936.1	1933.5	1936.1
12.5°	2014.4	2006.5	1985.7	1959.5	1933.5	1912.6	1910.0	1910.0	1912.6
15°	2016.9	2009.1	1983.1	1943.9	1907.3	1886.5	1883.9	1886.5	1889.1
17.5°	2009.1	1998.7	1959.5	1907.3	1865.7	1844.8	1844.8	1849.9	1855.2
20°	1980.4	1964.8	1910.0	1847.4	1800.4	1784.7	1789.9	1800.4	1805.6
22.5°	1928.2	1910.0	1847.4	1776.9	1727.4	1714.3	1727.4	1740.3	1745.6
25°	1868.3	1847.4	1774.3	1701.3	1649.1	1633.4	1651.7	1672.5	1680.4
27.5°	1787.4	1763.9	1696.0	1612.6	1560.4	1552.6	1573.3	1596.9	1602.1
30°	1690.9	1664.7	1589.1	1510.8	1463.8	1461.2	1484.7	1505.5	1513.4
32.5°	1573.3	1549.9	1484.7	1406.4	1364.7	1364.7	1388.1	1406.4	1414.2
35°	1448.1	1422.1	1364.7	1299.5	1265.5	1268.1	1291.6	1304.6	1312.4
37.5°	1299.5	1291.6	1247.3	1192.4	1169.0	1174.1	1192.4	1202.8	1210.8
40°	1179.4	1158.5	1129.8	1085.4	1069.8	1075.0	1093.2	1103.7	1109.0
42.5°	1048.9	1035.8	1012.4	981.1	970.6	978.5	994.2	1002.0	999.3
45°	923.7	921.1	897.5	879.3	874.1	884.6	895.0	902.8	905.5
47.5°	832.3	821.9	801.0	788.0	782.8	793.2	803.7	808.8	808.8
50°	743.6	733.2	712.3	699.3	694.0	704.5	712.3	717.6	712.3
52.5°	654.9	644.5	626.2	610.6	608.0	613.1	615.8	618.4	623.6
55°	584.4	574.0	553.2	535.0	529.7	532.3	529.7	529.7	527.0
57.5°	516.6	506.2	485.4	464.5	456.6	454.0	446.1	443.6	441.0
60°	456.6	443.6	422.7	399.2	388.7	378.3	365.3	357.5	357.5
62.5°	399.2	386.2	362.7	341.8	326.2	307.9	287.0	276.6	276.6
65°	344.4	334.0	307.9	284.4	263.5	240.1	216.6	211.3	216.6
67.5°	292.2	281.8	255.7	232.2	206.1	177.4	156.6	156.6	161.7
70°	245.3	234.8	211.3	182.6	153.9	125.2	109.6	109.6	109.6
72.5°	201.0	190.5	164.4	138.3	109.6	80.9	73.1	75.6	73.1
75°	156.6	148.7	125.2	96.5	70.5	49.6	46.9	44.3	46.9
77.5°	117.4	109.6	88.7	62.7	39.1	28.7	26.1	26.1	26.1
80°	80.9	73.1	57.4	36.5	20.9	13.1	13.1	13.1	13.1
82.5°	49.6	41.8	31.3	18.3	7.8	7.8	7.8	7.8	7.8
85°	23.5	18.3	13.1	5.3	2.6	2.6	2.6	2.6	2.6
87.5°	5.3	5.3	2.6	2.6	0.0	2.6	2.6	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)