

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: P582296

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582296
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC635D010-HM63040830-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3888.0 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

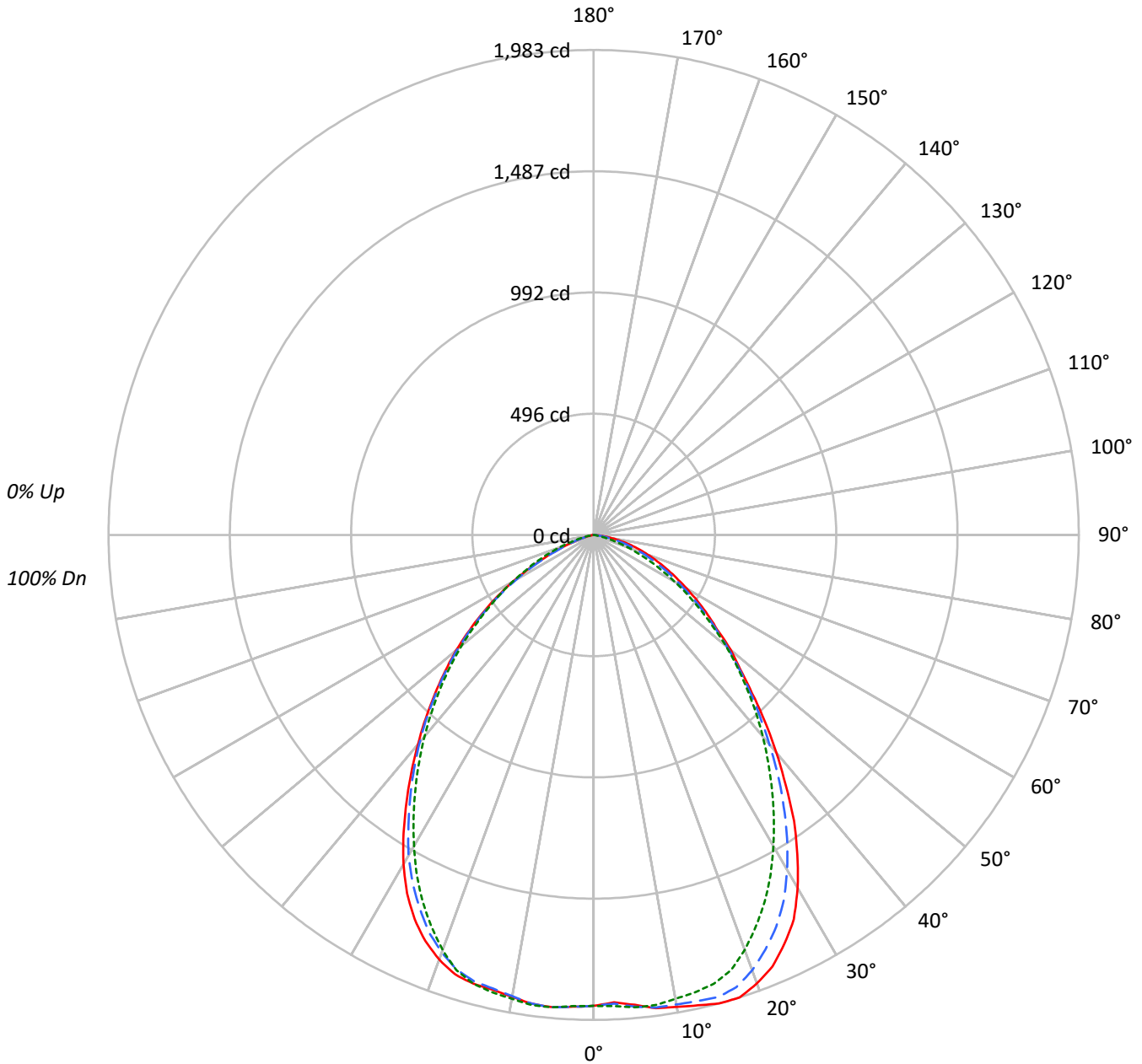
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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	94	92	90	88			88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77			77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68			68
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60			60
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	62	55	50	60	54	49	58	53	49	47			47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	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°	105578	105578	105578
5°	106125	106697	106697
10°	109088	107207	106767
15°	112555	107821	107821
20°	113871	105347	107786
25°	111593	100076	104813
30°	105554	92995	98452
35°	95533	85053	89242
40°	83106	76944	79928
45°	71015	68581	71015
50°	62318	60092	62531
55°	54373	50627	52624
60°	48066	42058	41477
65°	42663	33168	28434
70°	37651	23417	17150
75°	32068	13280	8282
80°	23867	4136	2462
85°	13146	1635	1635



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.7	4.8
10°-20°	540.5	13.9
20°-30°	789.4	20.3
30°-40°	827.9	21.3
40°-50°	697.5	17.9
50°-60°	488.7	12.6
60°-70°	262.0	6.7
70°-80°	87.8	2.3
80°-90°	9.6	0.2
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°	1514.6	39.0
0°-40°	2342.5	60.2
0°-60°	3528.6	90.8
0°-90°	3888.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3888.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1926	1926	1926	1926	1926	
5°	1928	1936	1939	1939	1939	185
15°	1983	1957	1900	1889	1900	559
25°	1845	1767	1654	1683	1733	845
35°	1428	1354	1271	1307	1334	886
45°	916	900	885	908	916	714
55°	569	551	530	540	551	512
65°	329	300	256	211	219	328
75°	151	117	63	39	39	161
85°	21	10	3	3	3	29
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°	1925.9	1925.9	1925.9	1925.9	1925.9	1925.9	1925.9	1925.9	1925.9
2.5°	1912.8	1912.8	1918.0	1923.2	1928.5	1928.5	1931.0	1933.7	1931.0
5°	1928.5	1928.5	1936.3	1938.9	1938.9	1936.3	1938.9	1938.9	1938.9
7.5°	1951.9	1946.7	1949.4	1944.1	1938.9	1936.3	1933.7	1933.7	1933.7
10°	1959.7	1954.5	1949.4	1938.9	1925.9	1918.0	1915.4	1918.0	1918.0
12.5°	1970.2	1965.0	1951.9	1931.0	1915.4	1902.3	1899.8	1905.0	1905.0
15°	1983.2	1978.1	1957.2	1923.2	1899.8	1886.7	1889.3	1894.5	1899.8
17.5°	1983.2	1972.8	1938.9	1894.5	1865.8	1852.7	1863.2	1876.3	1884.1
20°	1951.9	1941.5	1894.5	1839.8	1805.8	1798.0	1816.2	1839.8	1847.6
22.5°	1910.1	1889.3	1834.5	1769.3	1732.8	1732.8	1758.8	1787.5	1798.0
25°	1844.9	1829.3	1766.6	1691.0	1654.5	1651.9	1683.2	1722.3	1732.8
27.5°	1771.9	1751.0	1683.2	1604.9	1565.8	1568.3	1602.3	1641.4	1651.9
30°	1667.5	1641.4	1581.4	1505.7	1469.1	1479.6	1513.5	1542.2	1555.3
32.5°	1550.1	1526.6	1471.8	1401.3	1370.1	1380.4	1409.2	1435.3	1445.7
35°	1427.5	1401.3	1354.3	1291.8	1270.9	1281.2	1307.4	1328.3	1333.5
37.5°	1289.1	1270.9	1236.9	1187.3	1171.7	1184.7	1205.6	1218.7	1223.8
40°	1161.3	1145.6	1116.9	1080.4	1075.2	1085.5	1106.4	1114.3	1116.9
42.5°	1035.9	1023.0	1004.7	978.5	978.5	989.0	1007.2	1012.5	1015.1
45°	916.0	908.2	900.3	879.5	884.6	897.7	908.2	916.0	916.0
47.5°	811.5	814.2	803.7	788.1	793.3	806.4	814.2	822.0	822.0
50°	730.7	722.8	712.5	696.7	704.6	715.0	725.4	730.7	733.2
52.5°	636.7	634.1	626.3	608.0	613.3	618.5	628.9	636.7	639.3
55°	568.9	561.1	550.6	529.7	529.7	535.0	540.2	545.3	550.6
57.5°	503.7	495.9	480.1	456.6	454.1	454.1	451.4	456.6	464.5
60°	438.4	435.8	412.3	391.4	383.6	375.8	365.4	368.0	378.3
62.5°	381.0	375.8	354.9	328.9	313.1	300.2	287.1	284.4	294.9
65°	328.9	323.6	300.2	274.0	255.7	232.2	211.3	211.3	219.2
67.5°	281.8	271.4	250.6	221.8	198.3	169.6	148.8	153.9	156.6
70°	234.9	227.0	203.5	174.8	146.1	117.4	104.3	107.0	107.0
72.5°	193.1	182.6	159.2	130.5	101.8	75.6	70.5	67.8	67.8
75°	151.4	141.0	117.4	88.7	62.7	44.3	39.1	39.1	39.1
77.5°	109.6	101.8	80.9	54.8	34.0	20.9	18.3	15.6	15.6
80°	75.6	67.8	49.6	28.7	13.1	7.8	7.8	7.8	7.8
82.5°	44.3	36.5	23.5	13.1	5.3	2.6	2.6	2.6	2.6
85°	20.9	15.6	10.4	5.3	2.6	2.6	2.6	2.6	2.6
87.5°	2.6	2.6	2.6	0.0	0.0	0.0	0.0	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)