

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: P582279

Luminaire Tested: **HC635D010-HM63040827-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582279
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-HM63040827-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3636.4 lumens
Efficiency: N/A
Efficacy: 107.9 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

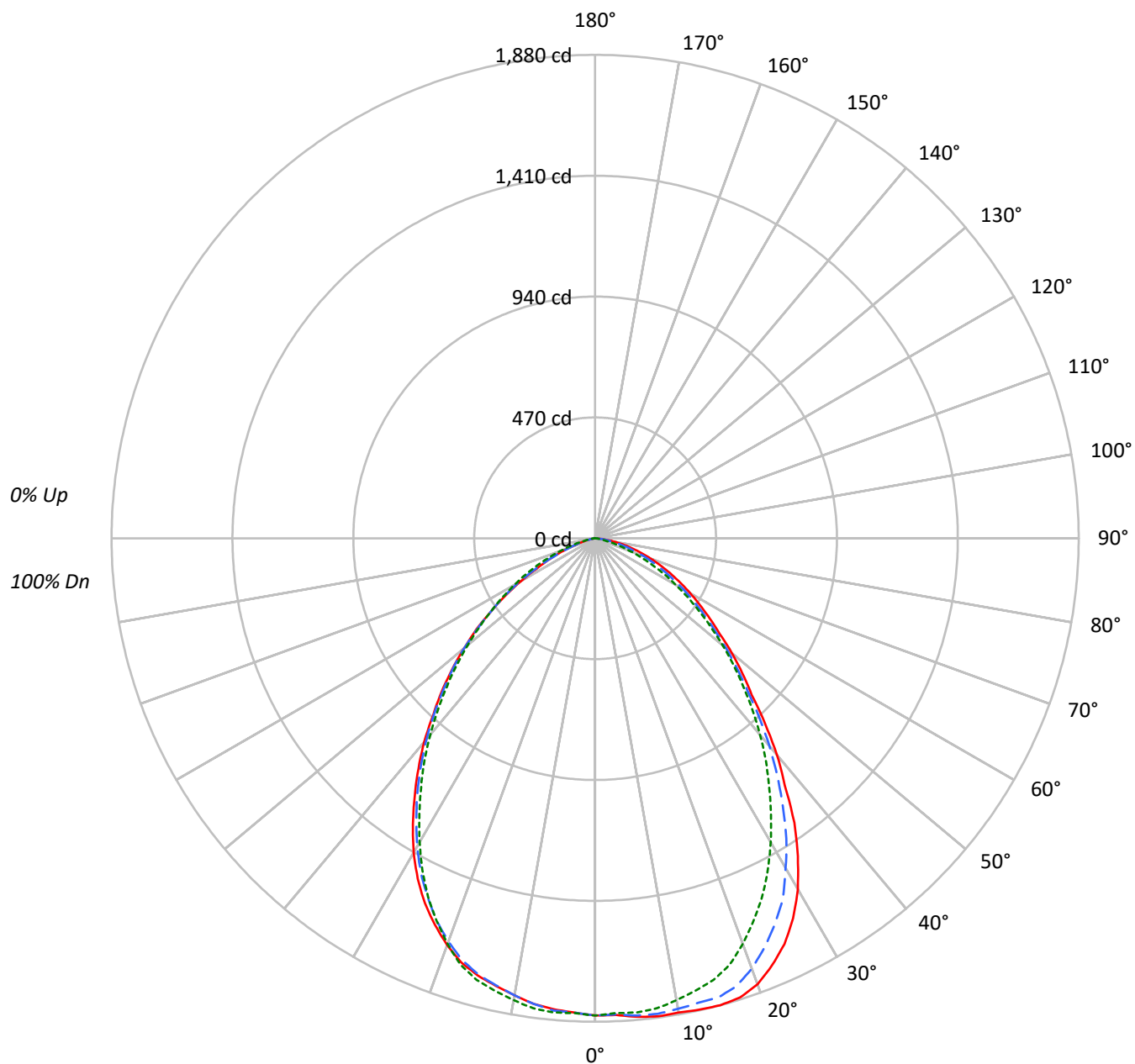
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
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	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77		
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67		
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59		
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53		
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47		
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42		
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38		
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35		
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	101735	101735	101735
5°	102790	101854	101183
10°	104251	101540	100455
15°	106698	100903	99938
20°	107699	97909	98184
25°	105333	92981	94741
30°	99762	86374	89299
35°	90339	78942	81874
40°	78669	71362	73974
45°	66751	63169	65433
50°	59120	55179	56629
55°	52070	47195	46957
60°	46663	39734	36532
65°	41639	31871	26190
70°	36641	23001	16365
75°	30903	13916	9277
80°	23804	6156	3820
85°	13775	1572	1572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.1	4.8
10°-20°	506.3	13.9
20°-30°	731.8	20.1
30°-40°	770.1	21.2
40°-50°	647.3	17.8
50°-60°	454.4	12.5
60°-70°	249.9	6.9
70°-80°	88.7	2.4
80°-90°	11.6	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°	1414.3	38.9
0°-40°	2184.3	60.1
0°-60°	3286.0	90.4
0°-90°	3636.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3636.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1856	1856	1856	1856	1856	
5°	1868	1863	1851	1844	1839	178
15°	1880	1848	1778	1756	1761	531
25°	1741	1654	1537	1540	1566	797
35°	1350	1272	1180	1204	1223	837
45°	861	837	815	834	844	675
55°	545	516	494	494	491	490
65°	321	287	246	202	202	320
75°	146	117	66	44	44	157
85°	22	12	2	2	2	30
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°	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8
2.5°	1855.8	1855.8	1853.3	1853.3	1848.4	1848.4	1846.1	1846.1	1846.1
5°	1867.9	1867.9	1863.1	1855.8	1850.9	1843.6	1843.6	1841.2	1838.7
7.5°	1875.3	1872.8	1865.4	1855.8	1843.6	1831.5	1826.6	1829.0	1826.6
10°	1872.8	1867.9	1858.2	1838.7	1824.1	1807.1	1804.6	1802.2	1804.6
12.5°	1877.7	1870.4	1850.9	1826.6	1802.2	1782.8	1780.4	1780.4	1782.8
15°	1880.0	1872.8	1848.4	1812.0	1777.9	1758.4	1756.0	1758.4	1760.9
17.5°	1872.8	1863.1	1826.6	1777.9	1739.1	1719.6	1719.6	1724.5	1729.3
20°	1846.1	1831.5	1780.4	1722.0	1678.3	1663.7	1668.5	1678.3	1683.0
22.5°	1797.4	1780.4	1722.0	1656.3	1610.1	1598.0	1610.1	1622.2	1627.1
25°	1741.4	1722.0	1653.9	1585.8	1537.2	1522.6	1539.6	1559.0	1566.3
27.5°	1666.0	1644.2	1580.9	1503.1	1454.4	1447.2	1466.6	1488.5	1493.4
30°	1576.0	1551.8	1481.2	1408.2	1364.5	1362.0	1383.9	1403.3	1410.7
32.5°	1466.6	1444.7	1383.9	1311.0	1272.0	1272.0	1294.0	1311.0	1318.2
35°	1349.9	1325.6	1272.0	1211.2	1179.6	1182.1	1203.9	1216.1	1223.4
37.5°	1211.2	1203.9	1162.6	1111.6	1089.6	1094.5	1111.6	1121.3	1128.5
40°	1099.3	1079.9	1053.1	1011.8	997.2	1002.1	1019.1	1028.8	1033.7
42.5°	977.7	965.6	943.6	914.5	904.8	912.1	926.7	934.0	931.5
45°	861.0	858.6	836.6	819.7	814.8	824.5	834.3	841.5	844.0
47.5°	775.8	766.1	746.6	734.5	729.6	739.4	749.1	754.0	754.0
50°	693.2	683.4	664.0	651.8	647.0	656.7	664.0	668.8	664.0
52.5°	610.5	600.8	583.7	569.1	566.7	571.6	574.0	576.4	581.3
55°	544.8	535.1	515.6	498.5	493.8	496.2	493.8	493.8	491.3
57.5°	481.6	471.8	452.4	433.0	425.6	423.2	415.9	413.5	411.0
60°	425.6	413.5	394.0	372.2	362.4	352.7	340.5	333.2	333.2
62.5°	372.2	360.0	338.1	318.6	304.0	287.0	267.6	257.8	257.8
65°	321.0	311.4	287.0	265.1	245.7	223.7	201.9	197.0	201.9
67.5°	272.4	262.7	238.3	216.5	192.1	165.4	145.9	145.9	150.8
70°	228.6	218.9	197.0	170.3	143.5	116.7	102.1	102.1	102.1
72.5°	187.3	177.5	153.2	129.0	102.1	75.4	68.2	70.5	68.2
75°	145.9	138.6	116.7	90.0	65.7	46.2	43.8	41.3	43.8
77.5°	109.5	102.1	82.7	58.4	36.5	26.7	24.3	24.3	24.3
80°	75.4	68.2	53.6	34.1	19.5	12.1	12.1	12.1	12.1
82.5°	46.2	38.9	29.2	17.0	7.4	7.4	7.4	7.4	7.4
85°	21.9	17.0	12.1	4.9	2.5	2.5	2.5	2.5	2.5
87.5°	4.9	4.9	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)