

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: P582376

Luminaire Tested: **HC635D010-HM63040930-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582376
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC635D010-HM63040930-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3395.1 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

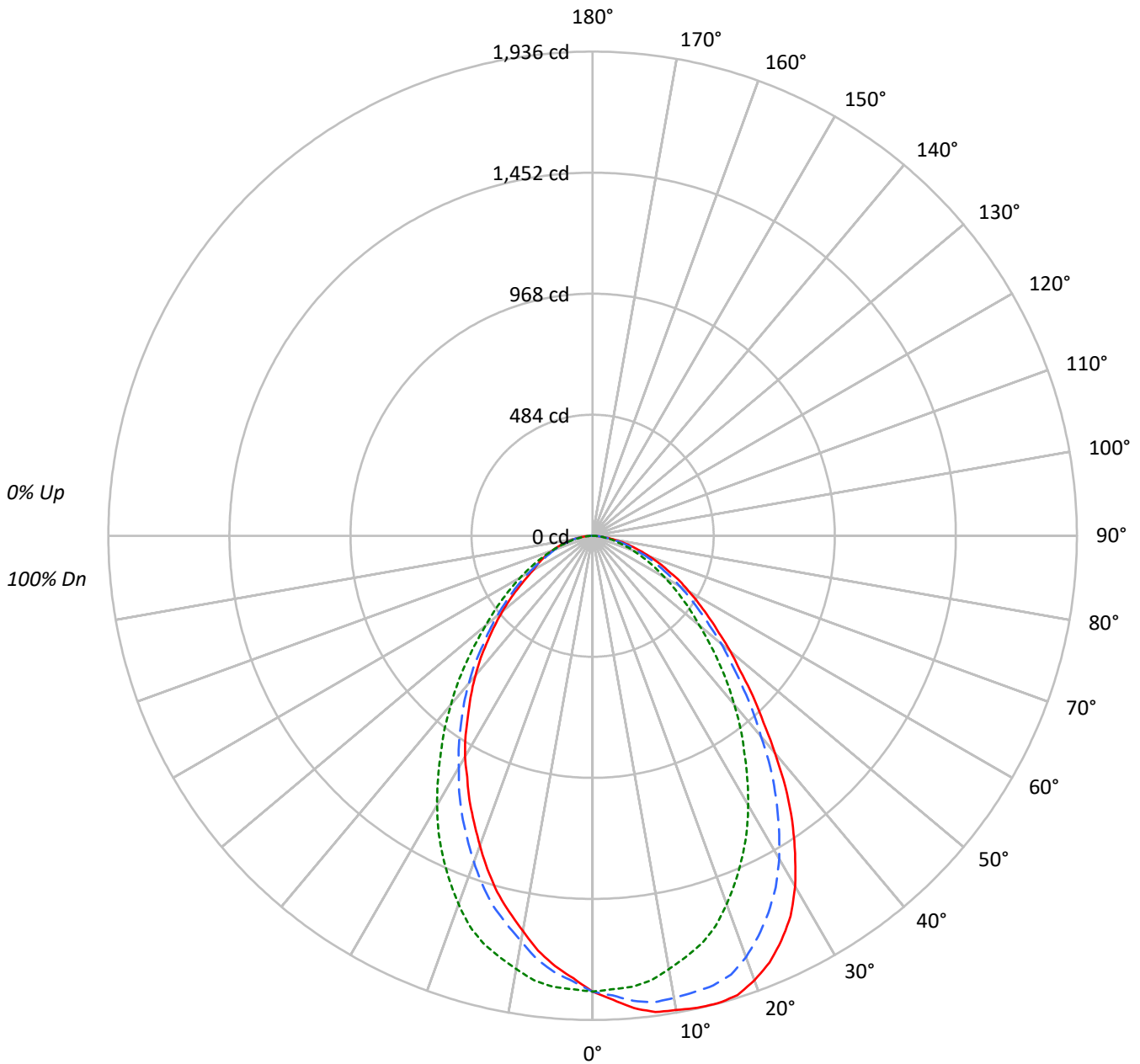
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87																			
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76																			
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66																			
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58																			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51																			
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	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	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	99915	99915	99915
5°	104342	99626	95031
10°	107196	97905	89305
15°	109847	95784	83672
20°	110330	91445	76849
25°	108024	85620	70480
30°	102484	78727	64592
35°	93077	70758	57949
40°	81102	63018	52141
45°	70170	55153	45834
50°	61303	47495	40169
55°	54163	41738	34465
60°	48680	36576	29855
65°	43597	31819	28953
70°	38933	27120	27120
75°	33762	22854	25459
80°	27118	19384	23235
85°	18492	16983	20065



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.3	5.0
10°-20°	476.2	14.0
20°-30°	663.6	19.5
30°-40°	683.7	20.1
40°-50°	566.7	16.7
50°-60°	407.2	12.0
60°-70°	259.3	7.6
70°-80°	133.2	3.9
80°-90°	33.9	1.0
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°	1311.1	38.6
0°-40°	1994.8	58.8
0°-60°	2968.7	87.4
0°-90°	3395.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3395.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1823	1823	1823	1823	1823	
5°	1896	1867	1810	1751	1727	182
15°	1936	1862	1688	1533	1474	545
25°	1786	1663	1416	1234	1165	818
35°	1391	1278	1057	917	866	864
45°	905	841	711	621	591	701
55°	567	520	437	388	361	510
65°	336	299	245	213	223	337
75°	159	137	108	113	120	170
85°	29	27	27	29	32	38
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°	1822.6	1822.6	1822.6	1822.6	1822.6	1822.6	1822.6	1822.6	1822.6
2.5°	1856.9	1849.6	1839.8	1830.0	1815.3	1798.1	1783.4	1778.5	1771.0
5°	1896.1	1886.3	1866.7	1842.2	1810.4	1778.5	1751.4	1734.3	1726.9
7.5°	1920.8	1908.5	1881.4	1839.8	1793.2	1746.5	1707.3	1682.8	1673.0
10°	1925.7	1913.4	1876.5	1820.2	1758.8	1695.1	1645.9	1616.5	1604.3
12.5°	1933.0	1915.9	1869.2	1803.0	1724.5	1650.8	1589.6	1552.8	1540.6
15°	1935.5	1915.9	1861.8	1781.0	1687.7	1599.4	1533.2	1489.0	1474.3
17.5°	1925.7	1903.6	1839.8	1741.6	1636.1	1543.0	1464.5	1417.9	1398.2
20°	1891.2	1866.7	1793.2	1682.8	1567.5	1469.4	1388.4	1339.4	1317.3
22.5°	1847.1	1815.3	1731.8	1614.1	1493.9	1390.8	1310.0	1260.8	1238.8
25°	1785.9	1756.3	1663.2	1538.1	1415.5	1307.5	1233.9	1182.4	1165.2
27.5°	1714.7	1680.4	1584.7	1459.6	1334.5	1226.5	1155.3	1108.8	1086.7
30°	1619.0	1587.1	1491.4	1366.3	1243.7	1143.1	1069.6	1030.2	1020.4
32.5°	1506.1	1479.2	1385.9	1268.2	1150.4	1057.3	995.9	954.3	944.5
35°	1390.8	1359.0	1278.0	1167.7	1057.3	973.9	917.4	880.6	865.9
37.5°	1265.7	1236.3	1167.7	1069.6	971.4	892.9	843.9	812.0	797.3
40°	1133.3	1111.2	1047.5	969.0	880.6	812.0	770.2	743.3	728.6
42.5°	1010.6	988.6	944.5	870.8	797.3	735.9	699.1	674.6	662.3
45°	905.1	885.5	841.4	777.6	711.4	659.8	620.6	603.5	591.2
47.5°	799.7	789.8	750.6	691.8	630.4	586.3	559.3	539.6	529.8
50°	718.8	706.5	669.6	608.4	556.9	522.5	498.0	480.8	471.0
52.5°	635.3	623.1	588.8	537.2	495.5	463.6	439.1	424.3	414.5
55°	566.7	556.9	520.0	473.5	436.7	409.6	387.6	370.4	360.6
57.5°	502.9	493.1	458.7	414.5	382.7	358.2	338.5	323.8	311.6
60°	444.0	436.7	402.3	360.6	333.6	309.1	291.9	279.6	272.3
62.5°	392.5	377.8	348.3	311.6	287.0	267.4	250.2	242.9	247.8
65°	336.1	328.7	299.2	267.4	245.3	225.7	213.4	218.3	223.2
67.5°	289.4	279.6	255.1	225.7	206.1	191.4	184.0	193.8	196.3
70°	242.9	233.0	211.0	186.5	169.2	159.4	159.4	166.8	169.2
72.5°	198.7	191.4	171.7	152.1	139.8	132.5	137.4	142.3	144.7
75°	159.4	152.1	137.4	120.2	107.9	107.9	112.8	117.8	120.2
77.5°	122.7	117.8	103.0	90.8	85.9	85.9	90.8	93.2	95.7
80°	85.9	81.0	73.6	66.3	61.4	66.3	71.2	71.2	73.6
82.5°	56.4	53.9	49.0	44.1	44.1	46.6	49.0	51.5	51.5
85°	29.4	29.4	27.0	24.5	27.0	29.4	29.4	31.9	31.9
87.5°	9.8	9.8	9.8	9.8	12.3	12.3	12.3	12.3	12.3
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)