

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: P582339

Luminaire Tested: **HC635D010-HM63040840-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC635D010-HM63040840-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3604.9 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

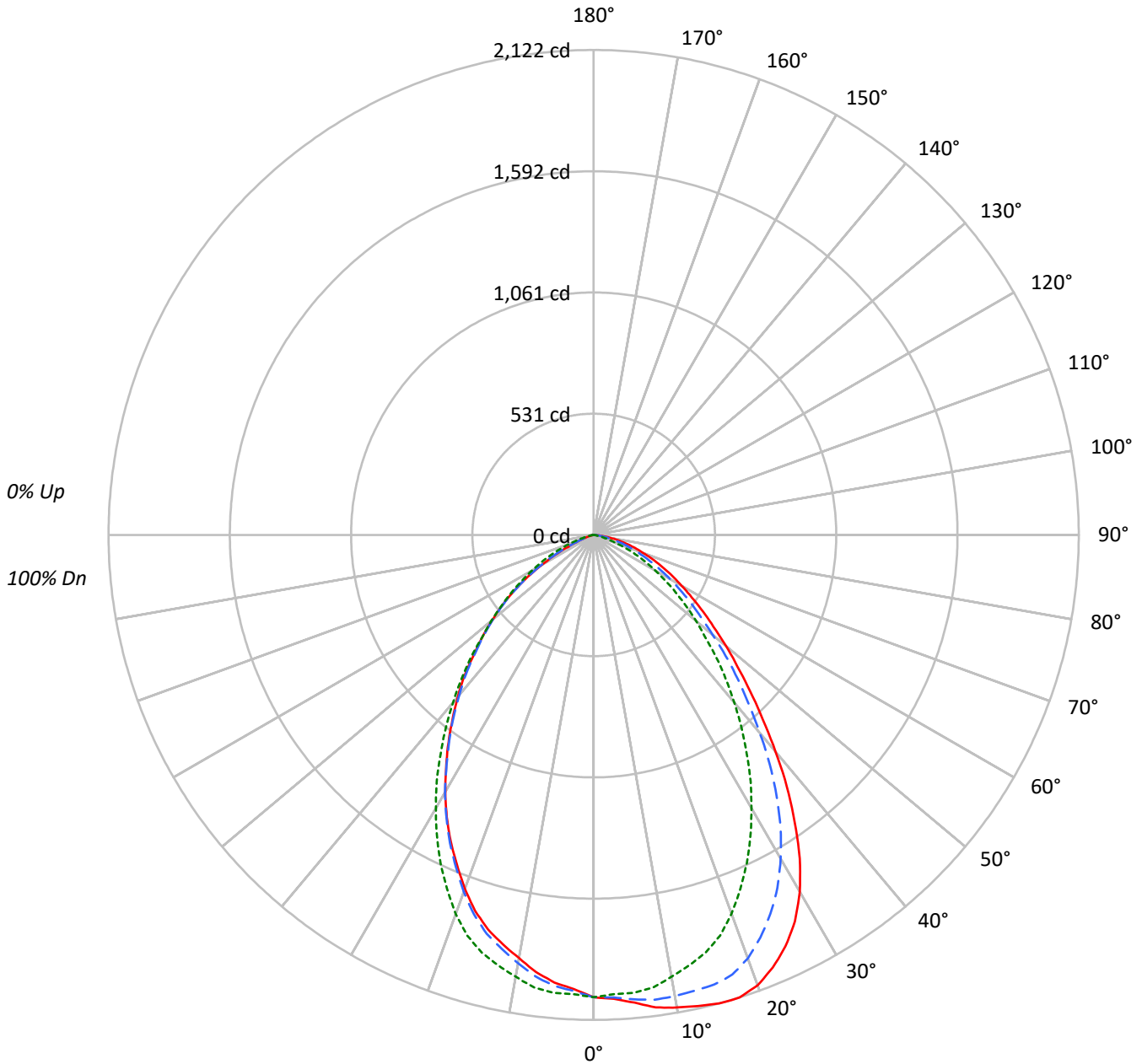
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89																			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78																			
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69																			
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61																			
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54																			
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49																			
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44																			
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40																			
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37																			
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	110896	110896	110896
5°	113047	110697	108188
10°	116887	109278	104685
15°	120460	107384	101408
20°	122330	102909	96101
25°	120128	95860	89491
30°	114182	87349	82127
35°	102633	78066	74070
40°	88566	68414	66174
45°	74992	58898	57355
50°	64305	49747	49252
55°	55750	41881	40247
60°	48658	33999	28704
65°	42806	26203	15864
70°	36945	17327	7742
75°	31348	8430	3008
80°	24246	3599	1799
85°	14341	1761	1761



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.9	5.3
10°-20°	539.8	15.0
20°-30°	760.2	21.1
30°-40°	776.7	21.5
40°-50°	626.2	17.4
50°-60°	420.0	11.7
60°-70°	212.6	5.9
70°-80°	67.9	1.9
80°-90°	10.5	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°	1490.9	41.4
0°-40°	2267.7	62.9
0°-60°	3314.0	91.9
0°-90°	3604.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3604.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2023	2023	2023	2023	2023	
5°	2054	2040	2012	1980	1966	198
15°	2122	2037	1892	1807	1787	599
25°	1986	1830	1585	1488	1480	909
35°	1534	1394	1166	1101	1107	954
45°	967	890	760	734	740	752
55°	583	518	438	418	421	525
65°	330	273	202	134	122	329
75°	148	105	40	14	14	159
85°	23	11	3	3	3	31
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°	2022.9	2022.9	2022.9	2022.9	2022.9	2022.9	2022.9	2022.9	2022.9
2.5°	2031.5	2028.6	2025.8	2020.1	2011.6	2003.0	1997.3	1991.6	1988.8
5°	2054.3	2048.6	2040.0	2028.6	2011.6	1991.6	1980.3	1968.8	1966.0
7.5°	2085.5	2074.1	2051.4	2025.8	1997.3	1968.8	1949.0	1937.6	1929.1
10°	2099.8	2079.8	2048.6	2005.8	1963.1	1929.1	1903.4	1886.3	1880.6
12.5°	2111.1	2088.3	2042.8	1986.0	1929.1	1883.5	1855.1	1840.8	1835.1
15°	2122.5	2099.8	2037.1	1963.1	1892.1	1838.0	1806.7	1792.5	1786.8
17.5°	2122.5	2091.3	2017.3	1923.3	1838.0	1772.6	1741.3	1727.0	1724.2
20°	2096.9	2062.8	1971.8	1860.8	1764.0	1690.0	1661.6	1653.1	1647.3
22.5°	2048.6	2008.8	1906.3	1781.1	1675.8	1604.7	1573.3	1567.7	1562.0
25°	1986.0	1946.1	1829.5	1695.8	1584.8	1513.6	1488.0	1482.3	1479.5
27.5°	1906.3	1863.6	1741.3	1604.7	1485.2	1416.9	1394.1	1394.1	1391.3
30°	1803.8	1755.5	1636.0	1499.4	1379.9	1317.3	1300.3	1300.3	1297.4
32.5°	1678.6	1630.3	1522.2	1391.3	1277.5	1212.0	1197.8	1203.5	1200.7
35°	1533.6	1493.8	1394.1	1266.1	1166.5	1106.8	1101.1	1106.8	1106.8
37.5°	1388.5	1351.5	1266.1	1155.1	1061.3	1007.2	1007.2	1015.8	1012.8
40°	1237.6	1209.2	1129.5	1032.8	956.0	919.0	913.3	921.8	924.7
42.5°	1095.3	1072.6	1004.3	924.7	856.3	819.5	828.0	833.6	836.5
45°	967.3	944.6	890.5	808.0	759.7	734.0	734.0	742.6	739.8
47.5°	853.5	836.5	782.5	702.8	660.1	648.7	654.3	660.1	660.1
50°	754.0	728.3	677.2	614.5	583.3	569.0	574.7	577.5	577.5
52.5°	660.1	643.0	591.8	535.0	506.5	498.0	498.0	500.8	500.8
55°	583.3	563.3	517.8	461.0	438.2	426.8	418.3	415.5	421.1
57.5°	509.3	492.2	449.5	395.5	369.8	358.5	341.5	335.7	341.5
60°	443.8	429.6	387.0	335.7	310.1	287.3	267.5	256.0	261.8
62.5°	387.0	369.8	327.2	284.5	256.0	230.5	199.2	182.1	190.6
65°	330.0	315.8	273.2	230.5	202.0	170.7	133.7	122.3	122.3
67.5°	278.8	264.6	224.8	187.8	153.7	116.7	82.5	79.7	82.5
70°	230.5	216.2	182.1	145.1	108.1	71.2	48.3	48.3	48.3
72.5°	190.6	173.5	142.3	105.3	68.3	37.0	25.6	28.5	28.5
75°	148.0	133.7	105.3	71.2	39.8	17.0	14.2	14.2	14.2
77.5°	111.0	99.5	74.0	45.5	20.0	5.7	5.7	5.7	5.7
80°	76.8	65.5	48.3	28.5	11.4	5.7	5.7	5.7	5.7
82.5°	45.5	39.8	28.5	14.2	5.7	2.8	2.8	2.8	2.8
85°	22.8	20.0	11.4	5.7	2.8	2.8	2.8	2.8	2.8
87.5°	5.7	5.7	2.8	2.8	0.0	2.8	2.8	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)