

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: P583095

Luminaire Tested: **HC655D010-HM64560930-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583095
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: HC655D010-HM64560930-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4256.9 lumens
Efficiency: N/A
Efficacy: 81.9 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

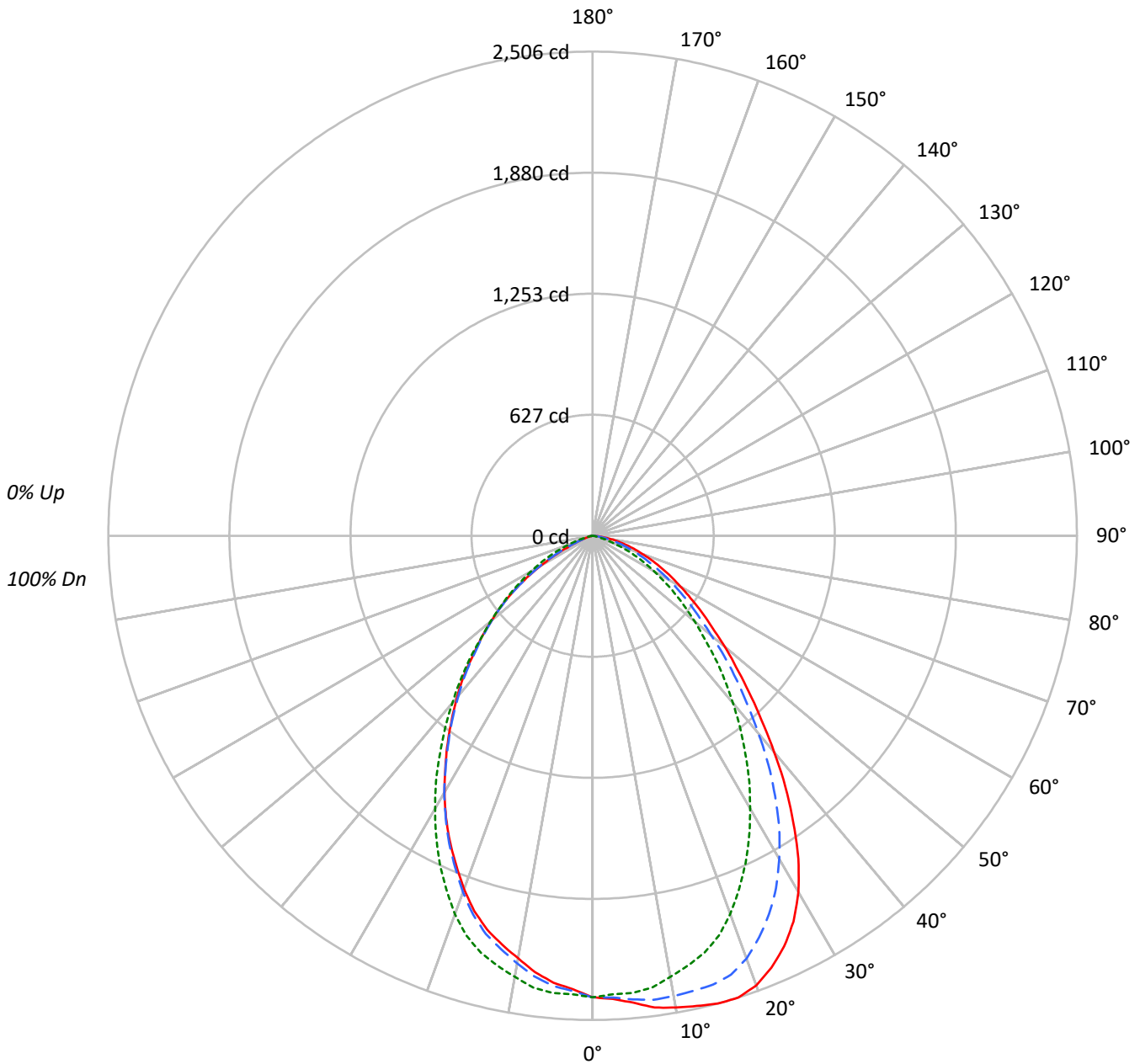
Input Watts (W): 52
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	130954	130954	130954
5°	133485	130712	127757
10°	138029	129045	123623
15°	142248	126800	119751
20°	144452	121519	113486
25°	141855	113196	105677
30°	134837	103149	96983
35°	121191	92187	87468
40°	104589	80787	78139
45°	88560	69550	67720
50°	75929	58736	58164
55°	65823	49451	47520
60°	57463	40161	33890
65°	50550	30937	18731
70°	43613	20452	9152
75°	37003	9976	3558
80°	28634	4262	2115
85°	16920	2076	2076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.4	5.3
10°-20°	637.5	15.0
20°-30°	897.7	21.1
30°-40°	917.2	21.5
40°-50°	739.5	17.4
50°-60°	496.0	11.7
60°-70°	251.0	5.9
70°-80°	80.2	1.9
80°-90°	12.3	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°	1760.6	41.4
0°-40°	2677.8	62.9
0°-60°	3913.3	91.9
0°-90°	4256.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4256.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2389	2389	2389	2389	2389	
5°	2426	2409	2375	2338	2322	234
15°	2506	2406	2234	2133	2110	708
25°	2345	2160	1871	1757	1747	1074
35°	1811	1646	1378	1300	1307	1127
45°	1142	1052	897	867	874	888
55°	689	612	517	494	497	620
65°	390	322	238	158	144	389
75°	175	124	47	17	17	188
85°	27	14	3	3	3	36
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°	2388.8	2388.8	2388.8	2388.8	2388.8	2388.8	2388.8	2388.8	2388.8
2.5°	2398.9	2395.6	2392.1	2385.4	2375.3	2365.3	2358.5	2351.8	2348.5
5°	2425.7	2419.0	2408.9	2395.6	2375.3	2351.8	2338.4	2324.9	2321.6
7.5°	2462.8	2449.3	2422.4	2392.1	2358.5	2324.9	2301.4	2288.0	2278.0
10°	2479.6	2456.0	2419.0	2368.6	2318.2	2278.0	2247.7	2227.6	2220.8
12.5°	2492.9	2466.1	2412.4	2345.2	2278.0	2224.2	2190.6	2173.8	2167.0
15°	2506.4	2479.6	2405.6	2318.2	2234.2	2170.5	2133.4	2116.6	2110.0
17.5°	2506.4	2469.4	2382.1	2271.2	2170.5	2093.2	2056.2	2039.4	2036.1
20°	2476.1	2435.8	2328.4	2197.3	2083.0	1995.7	1962.1	1952.1	1945.3
22.5°	2419.0	2372.0	2251.0	2103.3	1978.9	1894.9	1857.9	1851.3	1844.5
25°	2345.2	2298.1	2160.4	2002.5	1871.4	1787.4	1757.1	1750.5	1747.1
27.5°	2251.0	2200.6	2056.2	1894.9	1753.8	1673.1	1646.3	1646.3	1643.0
30°	2130.1	2073.0	1931.8	1770.6	1629.5	1555.5	1535.4	1535.4	1532.1
32.5°	1982.2	1925.2	1797.5	1643.0	1508.6	1431.3	1414.5	1421.1	1417.8
35°	1810.9	1763.9	1646.3	1495.1	1377.5	1307.0	1300.2	1307.0	1307.0
37.5°	1639.5	1595.9	1495.1	1364.1	1253.2	1189.4	1189.4	1199.4	1196.1
40°	1461.5	1427.9	1333.8	1219.6	1128.9	1085.2	1078.5	1088.6	1091.9
42.5°	1293.5	1266.6	1186.0	1091.9	1011.3	967.6	977.7	984.4	987.8
45°	1142.3	1115.5	1051.6	954.2	897.1	866.8	866.8	877.0	873.5
47.5°	1007.9	987.8	923.9	829.9	779.5	766.0	772.7	779.5	779.5
50°	890.3	860.2	799.6	725.8	688.7	671.9	678.7	682.0	682.0
52.5°	779.5	759.4	698.8	631.6	598.0	588.0	588.0	591.3	591.3
55°	688.7	665.2	611.5	544.3	517.4	504.0	493.9	490.5	497.2
57.5°	601.4	581.2	530.8	467.0	436.8	423.3	403.2	396.4	403.2
60°	524.1	507.3	456.9	396.4	366.3	339.3	315.9	302.4	309.1
62.5°	456.9	436.8	386.4	336.0	302.4	272.1	235.2	215.1	225.1
65°	389.7	372.9	322.5	272.1	238.5	201.6	157.9	144.4	144.4
67.5°	329.2	312.4	265.5	221.7	181.5	137.7	97.5	94.0	97.5
70°	272.1	255.3	215.1	171.3	127.6	84.0	57.1	57.1	57.1
72.5°	225.1	204.9	168.0	124.3	80.7	43.7	30.3	33.6	33.6
75°	174.7	157.9	124.3	84.0	47.1	20.1	16.8	16.8	16.8
77.5°	131.1	117.6	87.3	53.7	23.5	6.7	6.7	6.7	6.7
80°	90.7	77.2	57.1	33.6	13.5	6.7	6.7	6.7	6.7
82.5°	53.7	47.1	33.6	16.8	6.7	3.3	3.3	3.3	3.3
85°	26.9	23.5	13.5	6.7	3.3	3.3	3.3	3.3	3.3
87.5°	6.7	6.7	3.3	3.3	0.0	3.3	3.3	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)