

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: P583167

Luminaire Tested: **HC660D010-HM64560830-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583167
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: HC660D010-HM64560830-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4824.9 lumens
Efficiency: N/A
Efficacy: 87.7 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

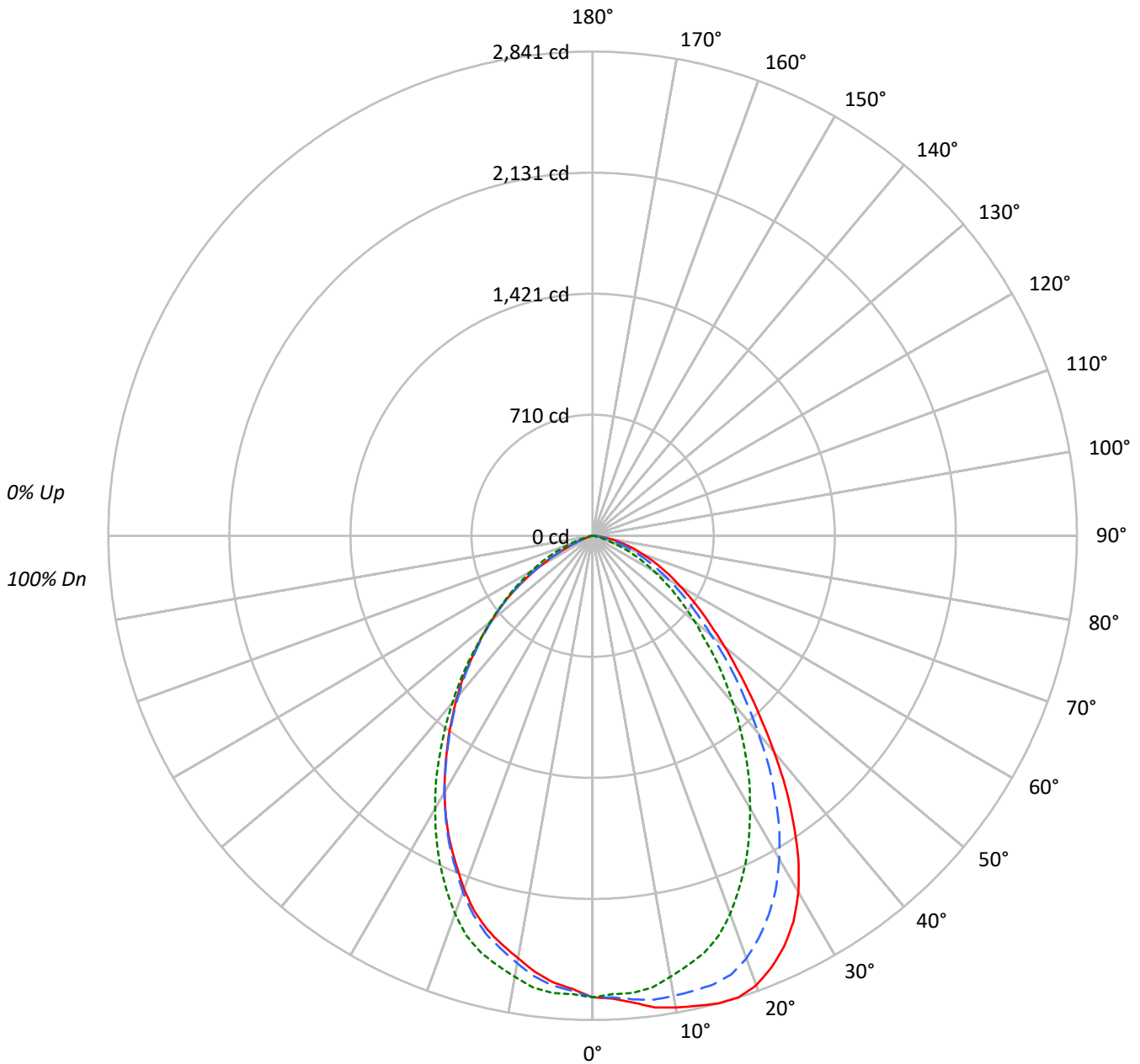
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	148426	148426	148426
5°	151298	148156	144799
10°	156438	146268	140117
15°	161227	143718	135722
20°	163727	137737	128625
25°	160781	128300	119777
30°	152827	116910	109922
35°	137360	104487	99133
40°	118544	91564	88566
45°	100383	78822	76760
50°	86061	66574	65934
55°	74607	56046	53867
60°	65137	45512	38407
65°	57295	35075	21247
70°	49431	23193	10386
75°	41959	11289	4046
80°	32454	4799	2431
85°	19184	2390	2390



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.5	5.3
10°-20°	722.5	15.0
20°-30°	1017.5	21.1
30°-40°	1039.6	21.5
40°-50°	838.2	17.4
50°-60°	562.2	11.7
60°-70°	284.5	5.9
70°-80°	91.0	1.9
80°-90°	14.0	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°	1995.5	41.4
0°-40°	3035.1	62.9
0°-60°	4435.4	91.9
0°-90°	4824.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4824.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2708	2708	2708	2708	2708	
5°	2749	2730	2692	2650	2631	265
15°	2841	2727	2532	2418	2391	802
25°	2658	2449	2121	1992	1980	1217
35°	2052	1866	1561	1474	1481	1277
45°	1295	1192	1017	982	990	1007
55°	781	693	586	560	564	702
65°	442	366	270	179	164	441
75°	198	141	53	19	19	213
85°	30	15	4	4	4	41
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°	2707.5	2707.5	2707.5	2707.5	2707.5	2707.5	2707.5	2707.5	2707.5
2.5°	2718.9	2715.2	2711.3	2703.7	2692.3	2680.9	2673.2	2665.6	2661.8
5°	2749.4	2741.8	2730.4	2715.2	2692.3	2665.6	2650.4	2635.2	2631.3
7.5°	2791.2	2776.0	2745.6	2711.3	2673.2	2635.2	2608.5	2593.3	2581.9
10°	2810.3	2783.7	2741.8	2684.7	2627.6	2581.9	2547.6	2524.7	2517.1
12.5°	2825.5	2795.1	2734.1	2658.1	2581.9	2520.9	2482.8	2463.8	2456.2
15°	2840.8	2810.3	2726.6	2627.6	2532.3	2460.0	2418.1	2399.1	2391.4
17.5°	2840.8	2798.9	2699.9	2574.2	2460.0	2372.4	2330.6	2311.5	2307.7
20°	2806.5	2760.9	2639.0	2490.5	2361.0	2262.0	2223.9	2212.5	2204.8
22.5°	2741.8	2688.4	2551.4	2383.8	2243.0	2147.7	2105.9	2098.2	2090.6
25°	2658.1	2604.7	2448.6	2269.6	2121.1	2025.9	1991.7	1984.0	1980.2
27.5°	2551.4	2494.3	2330.6	2147.7	1987.8	1896.4	1865.9	1865.9	1862.1
30°	2414.3	2349.5	2189.6	2006.8	1846.9	1763.1	1740.2	1740.2	1736.5
32.5°	2246.7	2182.0	2037.3	1862.1	1709.9	1622.2	1603.2	1610.8	1606.9
35°	2052.5	1999.2	1865.9	1694.6	1561.3	1481.3	1473.8	1481.3	1481.3
37.5°	1858.4	1808.8	1694.6	1546.1	1420.4	1348.0	1348.0	1359.5	1355.6
40°	1656.5	1618.4	1511.8	1382.4	1279.5	1230.0	1222.3	1233.8	1237.6
42.5°	1466.1	1435.6	1344.2	1237.6	1146.3	1096.7	1108.1	1115.8	1119.5
45°	1294.8	1264.3	1192.0	1081.5	1016.7	982.5	982.5	993.9	990.1
47.5°	1142.4	1119.5	1047.2	940.5	883.4	868.2	875.9	883.4	883.4
50°	1009.1	974.8	906.3	822.5	780.6	761.7	769.2	773.1	773.1
52.5°	883.4	860.6	792.0	715.9	677.8	666.4	666.4	670.2	670.2
55°	780.6	754.0	693.0	616.9	586.4	571.2	559.8	555.9	563.6
57.5°	681.6	658.7	601.6	529.3	495.1	479.9	457.0	449.4	457.0
60°	594.1	575.0	517.9	449.4	415.1	384.6	358.0	342.7	350.3
62.5°	517.9	495.1	437.9	380.8	342.7	308.4	266.6	243.8	255.2
65°	441.7	422.6	365.5	308.4	270.4	228.5	179.0	163.8	163.8
67.5°	373.2	354.1	300.9	251.3	205.6	156.1	110.5	106.6	110.5
70°	308.4	289.4	243.8	194.2	144.7	95.2	64.8	64.8	64.8
72.5°	255.2	232.3	190.4	140.8	91.4	49.5	34.3	38.0	38.0
75°	198.1	179.0	140.8	95.2	53.3	22.8	19.1	19.1	19.1
77.5°	148.5	133.3	99.0	60.9	26.6	7.7	7.7	7.7	7.7
80°	102.8	87.6	64.8	38.0	15.2	7.7	7.7	7.7	7.7
82.5°	60.9	53.3	38.0	19.1	7.7	3.8	3.8	3.8	3.8
85°	30.5	26.6	15.2	7.7	3.8	3.8	3.8	3.8	3.8
87.5°	7.7	7.7	3.8	3.8	0.0	3.8	3.8	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)