

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: P583240

Luminaire Tested: **HC660D010-HM64560930-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583240
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: HC660D010-HM64560930-61WWW
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: 4848.2 lumens
Efficiency: N/A
Efficacy: 88.1 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

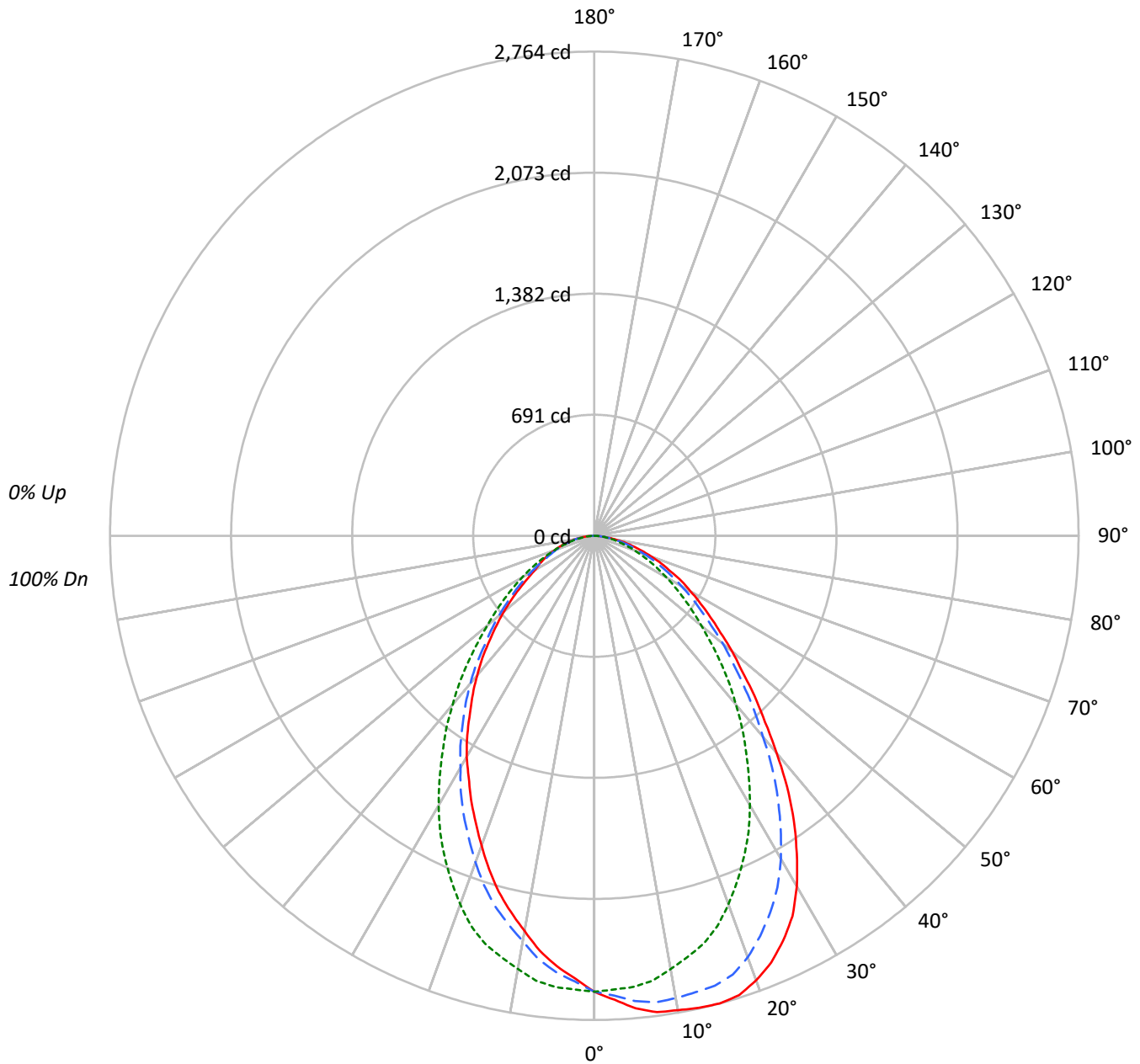
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	110	106	103	99	108	104	101	98		100	97	95			96	94	92			93
2	102	95	89	84	99	93	88	83		90	85	81			86	83	79			83
3	94	85	78	72	92	83	77	71		80	75	70			78	73	69			75
4	87	76	69	63	85	75	68	62		73	67	62			71	65	61			69
5	81	69	61	55	79	68	61	55		66	60	55			64	59	54			63
6	75	63	55	49	73	62	55	49		61	54	49			59	53	48			57
7	70	58	50	44	69	57	50	44		56	49	44			54	48	44			53
8	66	53	46	40	64	53	45	40		51	45	40			50	44	40			49
9	62	49	42	37	60	49	42	37		48	41	36			47	41	36			46
10	58	46	39	34	57	45	38	34		44	38	33			44	38	33			43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	142675	142675	142675
5°	149004	142257	135708
10°	153070	139810	127525
15°	156851	136777	119479
20°	157555	130579	109740
25°	154249	122257	100639
30°	146345	112422	92242
35°	132916	101040	82750
40°	115817	89990	74454
45°	100204	78752	65449
50°	87537	67819	57363
55°	77331	59592	49212
60°	69512	52233	42628
65°	62251	45439	41340
70°	55586	38741	38741
75°	48229	32661	36368
80°	38736	27655	33180
85°	26418	24216	28682



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.6	5.0
10°-20°	680.0	14.0
20°-30°	947.6	19.5
30°-40°	976.4	20.1
40°-50°	809.2	16.7
50°-60°	581.5	12.0
60°-70°	370.3	7.6
70°-80°	190.2	3.9
80°-90°	48.4	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°	1872.2	38.6
0°-40°	2848.5	58.8
0°-60°	4239.3	87.4
0°-90°	4848.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4848.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2603	2603	2603	2603	2603	
5°	2708	2666	2585	2501	2466	260
15°	2764	2659	2410	2189	2105	779
25°	2550	2375	2021	1762	1664	1168
35°	1986	1825	1510	1310	1236	1234
45°	1292	1202	1016	886	844	1000
55°	809	743	624	554	515	729
65°	480	427	350	305	319	481
75°	228	196	154	161	172	243
85°	42	38	38	42	46	54
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°	2602.6	2602.6	2602.6	2602.6	2602.6	2602.6	2602.6	2602.6	2602.6
2.5°	2651.7	2641.2	2627.2	2613.1	2592.2	2567.7	2546.6	2539.6	2529.1
5°	2707.7	2693.8	2665.7	2630.7	2585.1	2539.6	2501.0	2476.5	2466.1
7.5°	2742.8	2725.3	2686.7	2627.2	2560.6	2494.0	2438.0	2403.0	2389.0
10°	2749.8	2732.2	2679.7	2599.2	2511.6	2420.5	2350.4	2308.4	2290.9
12.5°	2760.3	2735.8	2669.3	2574.7	2462.5	2357.4	2269.9	2217.3	2199.8
15°	2763.7	2735.8	2658.7	2543.0	2410.0	2283.9	2189.3	2126.3	2105.2
17.5°	2749.8	2718.3	2627.2	2487.0	2336.4	2203.4	2091.2	2024.7	1996.6
20°	2700.7	2665.7	2560.6	2403.0	2238.3	2098.2	1982.7	1912.6	1881.1
22.5°	2637.6	2592.2	2473.1	2304.9	2133.3	1986.1	1870.6	1800.5	1769.0
25°	2550.1	2508.1	2374.9	2196.3	2021.2	1867.0	1762.0	1688.3	1663.8
27.5°	2448.6	2399.4	2262.9	2084.3	1905.6	1751.4	1649.9	1583.3	1551.8
30°	2311.9	2266.4	2129.7	1951.1	1776.0	1632.3	1527.2	1471.2	1457.2
32.5°	2150.8	2112.2	1979.1	1811.0	1642.9	1509.8	1422.2	1362.6	1348.7
35°	1986.1	1940.6	1825.0	1667.4	1509.8	1390.7	1310.1	1257.5	1236.5
37.5°	1807.4	1765.4	1667.4	1527.2	1387.1	1275.0	1205.0	1159.5	1138.4
40°	1618.4	1586.8	1495.7	1383.6	1257.5	1159.5	1099.9	1061.4	1040.4
42.5°	1443.1	1411.6	1348.7	1243.5	1138.4	1050.9	998.3	963.3	945.8
45°	1292.5	1264.6	1201.5	1110.4	1015.8	942.3	886.2	861.7	844.2
47.5°	1141.9	1128.0	1071.8	987.8	900.3	837.2	798.7	770.6	756.7
50°	1026.4	1008.9	956.3	868.7	795.2	746.1	711.1	686.6	672.6
52.5°	907.3	889.8	840.7	767.1	707.5	662.1	627.0	606.0	592.0
55°	809.1	795.2	742.6	676.0	623.5	585.0	553.5	528.9	514.9
57.5°	718.1	704.1	655.1	592.0	546.4	511.5	483.4	462.3	444.8
60°	634.0	623.5	574.5	514.9	476.4	441.4	416.9	399.4	388.8
62.5°	560.5	539.4	497.4	444.8	409.9	381.8	357.3	346.8	353.8
65°	479.9	469.4	427.3	381.8	350.3	322.3	304.8	311.7	318.7
67.5°	413.3	399.4	364.3	322.3	294.2	273.3	262.7	276.7	280.2
70°	346.8	332.8	301.2	266.3	241.7	227.7	227.7	238.2	241.7
72.5°	283.7	273.3	245.2	217.1	199.6	189.2	196.2	203.2	206.7
75°	227.7	217.1	196.2	171.7	154.2	154.2	161.1	168.1	171.7
77.5°	175.1	168.1	147.2	129.6	122.7	122.7	129.6	133.1	136.6
80°	122.7	115.6	105.1	94.6	87.6	94.6	101.6	101.6	105.1
82.5°	80.5	77.1	70.1	63.1	63.1	66.5	70.1	73.5	73.5
85°	42.0	42.0	38.5	35.0	38.5	42.0	42.0	45.6	45.6
87.5°	14.0	14.0	14.0	14.0	17.5	17.5	17.5	17.5	17.5
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)