

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: P583233

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583233
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC660D010-HM64560930-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5237.0 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

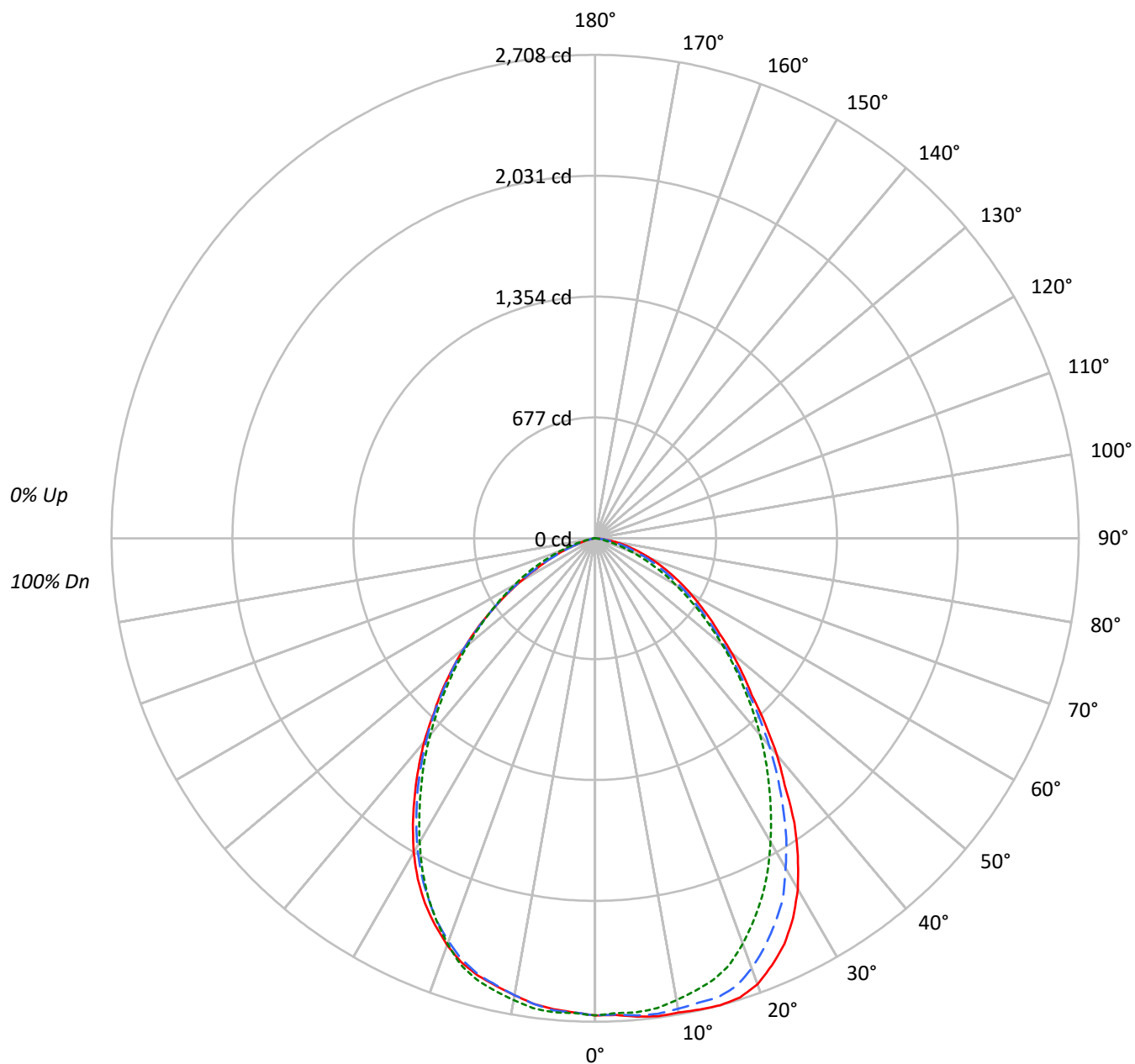
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101	108	105	102	99		101	98	96		97	95	93		93	92	90
2	103	96	90	85	100	94	89	84		91	86	83		87	84	81		85	82	79
3	95	86	79	74	93	84	78	73		82	76	72		79	74	70		77	73	69
4	88	78	70	64	86	76	69	64		74	68	63		72	66	62		70	65	61
5	82	70	62	57	80	69	62	56		67	61	56		65	60	55		64	59	55
6	76	64	56	50	74	63	56	50		61	55	50		60	54	49		58	53	49
7	71	59	51	45	69	58	50	45		56	50	45		55	49	44		54	48	44
8	66	54	46	41	65	53	46	41		52	45	41		51	45	40		50	44	40
9	62	50	42	37	61	49	42	37		48	42	37		47	41	37		46	41	37
10	59	46	39	34	57	46	39	34		45	38	34		44	38	34		43	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	146518	146518	146518
5°	148035	146687	145724
10°	150142	146240	144681
15°	153667	145324	143934
20°	155098	141004	141406
25°	151702	133907	136447
30°	143680	124386	128602
35°	130105	113696	117912
40°	113305	102778	106535
45°	96134	90971	94235
50°	85140	79469	81558
55°	74989	67964	67620
60°	67199	57221	52616
65°	59968	45893	37721
70°	52781	33131	23594
75°	44522	20037	13365
80°	34285	8871	5525
85°	19813	2201	2201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.7	4.8
10°-20°	729.1	13.9
20°-30°	1054.0	20.1
30°-40°	1109.0	21.2
40°-50°	932.3	17.8
50°-60°	654.4	12.5
60°-70°	360.0	6.9
70°-80°	127.8	2.4
80°-90°	16.7	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°	2036.8	38.9
0°-40°	3145.8	60.1
0°-60°	4732.5	90.4
0°-90°	5237.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5237.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2673	2673	2673	2673	2673	
5°	2690	2683	2666	2655	2648	257
15°	2708	2662	2561	2529	2536	764
25°	2508	2382	2214	2217	2256	1147
35°	1944	1832	1699	1734	1762	1205
45°	1240	1205	1173	1202	1216	973
55°	785	743	711	711	708	706
65°	462	413	354	291	291	460
75°	210	168	95	63	63	226
85°	32	18	4	4	4	43
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°	2672.7	2672.7	2672.7	2672.7	2672.7	2672.7	2672.7	2672.7	2672.7
2.5°	2672.7	2672.7	2669.1	2669.1	2662.2	2662.2	2658.6	2658.6	2658.6
5°	2690.1	2690.1	2683.1	2672.7	2665.6	2655.2	2655.2	2651.6	2648.1
7.5°	2700.6	2697.2	2686.7	2672.7	2655.2	2637.6	2630.5	2634.1	2630.5
10°	2697.2	2690.1	2676.1	2648.1	2627.1	2602.6	2599.1	2595.6	2599.1
12.5°	2704.2	2693.7	2665.6	2630.5	2595.6	2567.6	2564.0	2564.0	2567.6
15°	2707.6	2697.2	2662.2	2609.6	2560.6	2532.5	2529.1	2532.5	2536.1
17.5°	2697.2	2683.1	2630.5	2560.6	2504.5	2476.5	2476.5	2483.5	2490.5
20°	2658.6	2637.6	2564.0	2479.9	2417.0	2395.9	2402.9	2417.0	2423.9
22.5°	2588.5	2564.0	2479.9	2385.5	2318.8	2301.3	2318.8	2336.3	2343.3
25°	2508.0	2479.9	2381.9	2283.9	2213.8	2192.7	2217.2	2245.3	2255.8
27.5°	2399.4	2367.9	2276.8	2164.8	2094.7	2084.1	2112.2	2143.7	2150.7
30°	2269.8	2234.7	2133.2	2028.1	1965.0	1961.6	1993.1	2021.2	2031.6
32.5°	2112.2	2080.7	1993.1	1888.0	1832.0	1832.0	1863.5	1888.0	1898.5
35°	1944.1	1909.0	1832.0	1744.3	1698.9	1702.3	1733.9	1751.4	1761.9
37.5°	1744.3	1733.9	1674.4	1600.7	1569.2	1576.2	1600.7	1614.8	1625.4
40°	1583.3	1555.3	1516.7	1457.1	1436.2	1443.1	1467.7	1481.7	1488.7
42.5°	1408.1	1390.6	1359.1	1317.0	1303.1	1313.5	1334.6	1345.1	1341.6
45°	1240.0	1236.5	1204.9	1180.4	1173.4	1187.4	1201.5	1211.9	1215.5
47.5°	1117.4	1103.3	1075.4	1057.9	1050.9	1064.9	1078.8	1085.8	1085.8
50°	998.3	984.2	956.3	938.8	931.8	945.8	956.3	963.3	956.3
52.5°	879.2	865.2	840.6	819.7	816.1	823.2	826.6	830.2	837.2
55°	784.6	770.6	742.6	718.1	711.1	714.5	711.1	711.1	707.5
57.5°	693.6	679.6	651.5	623.5	612.9	609.5	599.0	595.4	592.0
60°	612.9	595.4	567.5	536.0	521.9	507.9	490.4	479.9	479.9
62.5°	536.0	518.5	486.9	458.9	437.8	413.3	385.3	371.3	371.3
65°	462.3	448.4	413.3	381.8	353.8	322.3	290.8	283.7	290.8
67.5°	392.4	378.3	343.2	311.7	276.7	238.2	210.2	210.2	217.1
70°	329.3	315.3	283.7	245.2	206.7	168.1	147.2	147.2	147.2
72.5°	269.7	255.7	220.7	185.6	147.2	108.6	98.0	101.6	98.0
75°	210.2	199.6	168.1	129.6	94.6	66.5	63.1	59.6	63.1
77.5°	157.6	147.2	119.1	84.1	52.6	38.5	35.0	35.0	35.0
80°	108.6	98.0	77.1	49.0	28.1	17.5	17.5	17.5	17.5
82.5°	66.5	56.0	42.0	24.5	10.5	10.5	10.5	10.5	10.5
85°	31.5	24.5	17.5	7.0	3.5	3.5	3.5	3.5	3.5
87.5°	7.0	7.0	3.5	3.5	0.0	3.5	3.5	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)