

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: P583059

Luminaire Tested: **HC655D010-HM64560840-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583059
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-HM64560840-61WWBB
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: 5035.4 lumens
Efficiency: N/A
Efficacy: 96.8 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

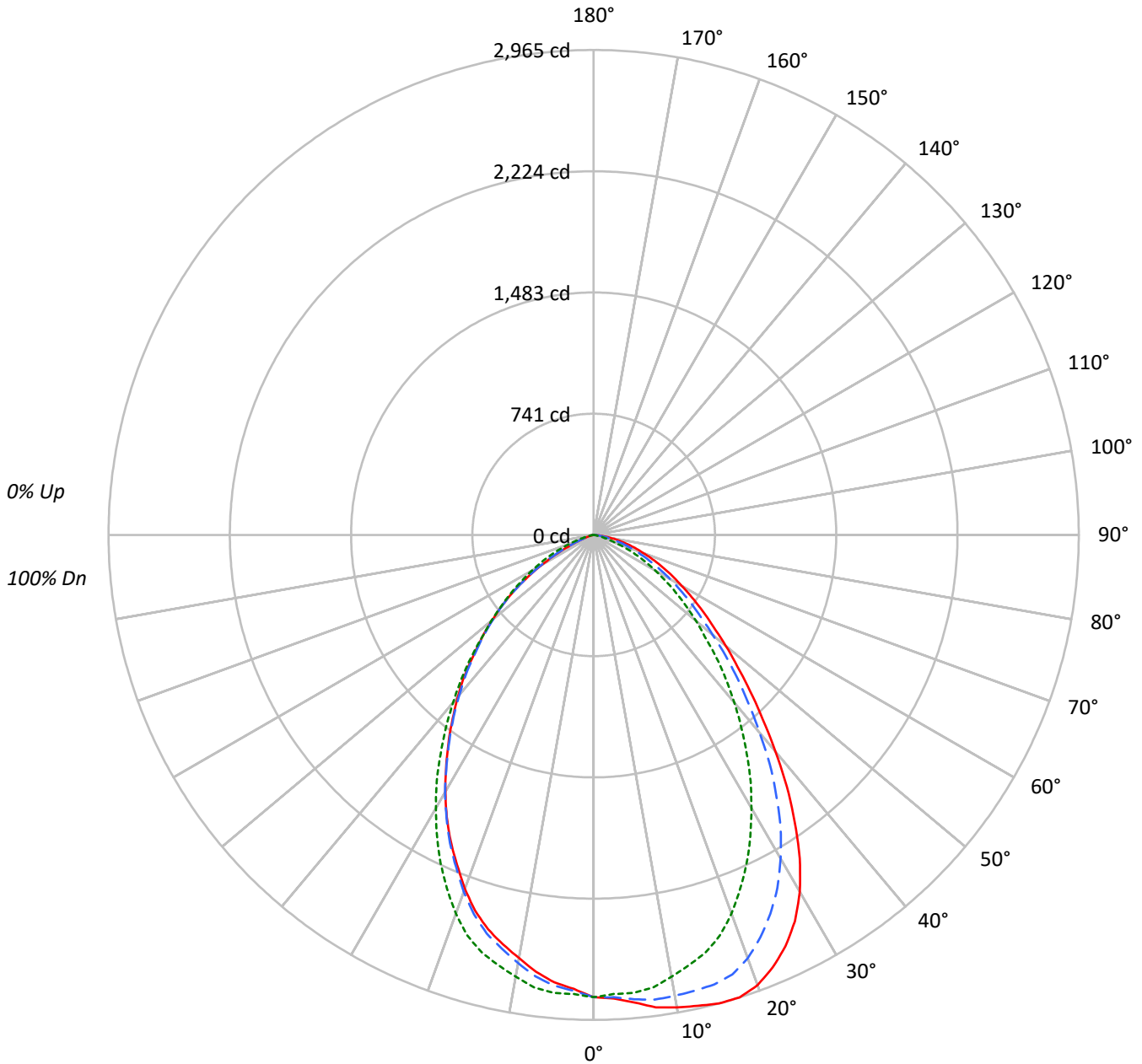
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89	89	89	89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78	78	78	78
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69	69	69	69
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61	61	61	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54	54	54	54
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49	49	49	49
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44	44	44	44
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40	40	40	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37	37	37	37
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34	34	34	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	154905	154905	154905
5°	157902	154617	151122
10°	163268	152647	146234
15°	168264	149990	141647
20°	170873	143752	134243
25°	167792	133895	125003
30°	159499	122012	114714
35°	143356	109051	103456
40°	123718	95565	92430
45°	104755	82272	80117
50°	89822	69482	68808
55°	77866	58502	56218
60°	67977	47496	40095
65°	59799	36593	22168
70°	51595	24219	10819
75°	43781	11777	4215
80°	33874	5020	2494
85°	20002	2516	2516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.6	5.3
10°-20°	754.1	15.0
20°-30°	1061.9	21.1
30°-40°	1084.9	21.5
40°-50°	874.8	17.4
50°-60°	586.7	11.7
60°-70°	296.9	5.9
70°-80°	94.9	1.9
80°-90°	14.6	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°	2082.6	41.4
0°-40°	3167.5	62.9
0°-60°	4629.0	91.9
0°-90°	5035.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5035.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2826	2826	2826	2826	2826	
5°	2869	2850	2810	2766	2746	276
15°	2965	2846	2643	2524	2496	837
25°	2774	2555	2214	2078	2067	1270
35°	2142	1947	1630	1538	1546	1333
45°	1351	1244	1061	1025	1033	1051
55°	815	723	612	584	588	733
65°	461	382	282	187	171	460
75°	207	147	56	20	20	222
85°	32	16	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°	2825.7	2825.7	2825.7	2825.7	2825.7	2825.7	2825.7	2825.7	2825.7
2.5°	2837.7	2833.6	2829.6	2821.7	2809.7	2797.9	2789.9	2781.9	2778.0
5°	2869.4	2861.4	2849.5	2833.6	2809.7	2781.9	2766.1	2750.1	2746.2
7.5°	2913.1	2897.2	2865.5	2829.6	2789.9	2750.1	2722.3	2706.5	2694.5
10°	2933.0	2905.2	2861.4	2801.8	2742.2	2694.5	2658.8	2634.9	2627.0
12.5°	2948.9	2917.0	2853.5	2774.0	2694.5	2631.0	2591.2	2571.4	2563.4
15°	2964.8	2933.0	2845.6	2742.2	2642.8	2567.3	2523.7	2503.8	2495.8
17.5°	2964.8	2921.1	2817.8	2686.6	2567.3	2475.9	2432.2	2412.4	2408.4
20°	2929.0	2881.3	2754.1	2599.2	2464.1	2360.7	2320.9	2309.0	2301.1
22.5°	2861.4	2805.8	2662.7	2487.8	2340.8	2241.4	2197.8	2189.9	2181.8
25°	2774.0	2718.4	2555.4	2368.6	2213.6	2114.3	2078.5	2070.6	2066.6
27.5°	2662.7	2603.1	2432.2	2241.4	2074.5	1979.2	1947.3	1947.3	1943.4
30°	2519.7	2452.1	2285.2	2094.4	1927.5	1840.0	1816.3	1816.3	1812.2
32.5°	2344.8	2277.3	2126.2	1943.4	1784.4	1693.0	1673.1	1681.2	1677.1
35°	2142.1	2086.5	1947.3	1768.6	1629.5	1545.9	1538.0	1545.9	1545.9
37.5°	1939.4	1887.7	1768.6	1613.5	1482.4	1406.8	1406.8	1418.8	1414.9
40°	1728.8	1689.1	1577.8	1442.7	1335.4	1283.7	1275.7	1287.7	1291.6
42.5°	1530.1	1498.3	1402.9	1291.6	1196.2	1144.6	1156.5	1164.4	1168.4
45°	1351.2	1319.4	1243.9	1128.7	1061.2	1025.3	1025.3	1037.3	1033.4
47.5°	1192.2	1168.4	1093.0	981.7	922.0	906.2	914.1	922.0	922.0
50°	1053.2	1017.4	945.9	858.4	814.7	794.9	802.8	806.8	806.8
52.5°	922.0	898.1	826.7	747.2	707.4	695.5	695.5	699.5	699.5
55°	814.7	786.9	723.3	643.8	612.1	596.1	584.2	580.3	588.2
57.5°	711.3	687.6	627.9	552.5	516.6	500.8	476.9	468.9	476.9
60°	620.0	600.1	540.5	468.9	433.2	401.4	373.6	357.7	365.7
62.5°	540.5	516.6	457.0	397.4	357.7	321.9	278.2	254.3	266.3
65°	461.0	441.1	381.5	321.9	282.1	238.5	186.8	170.9	170.9
67.5°	389.4	369.6	314.0	262.3	214.6	162.9	115.2	111.3	115.2
70°	321.9	302.0	254.3	202.6	151.1	99.4	67.5	67.5	67.5
72.5°	266.3	242.4	198.7	147.0	95.3	51.7	35.7	39.7	39.7
75°	206.7	186.8	147.0	99.4	55.6	23.9	19.9	19.9	19.9
77.5°	155.0	139.1	103.3	63.6	27.8	7.9	7.9	7.9	7.9
80°	107.3	91.4	67.5	39.7	15.9	7.9	7.9	7.9	7.9
82.5°	63.6	55.6	39.7	19.9	7.9	4.0	4.0	4.0	4.0
85°	31.8	27.8	15.9	7.9	4.0	4.0	4.0	4.0	4.0
87.5°	7.9	7.9	4.0	4.0	0.0	4.0	4.0	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)