

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: P593425

Luminaire Tested: **HC660D010-HM64560850-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC660D010-HM64560850-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6174.0 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

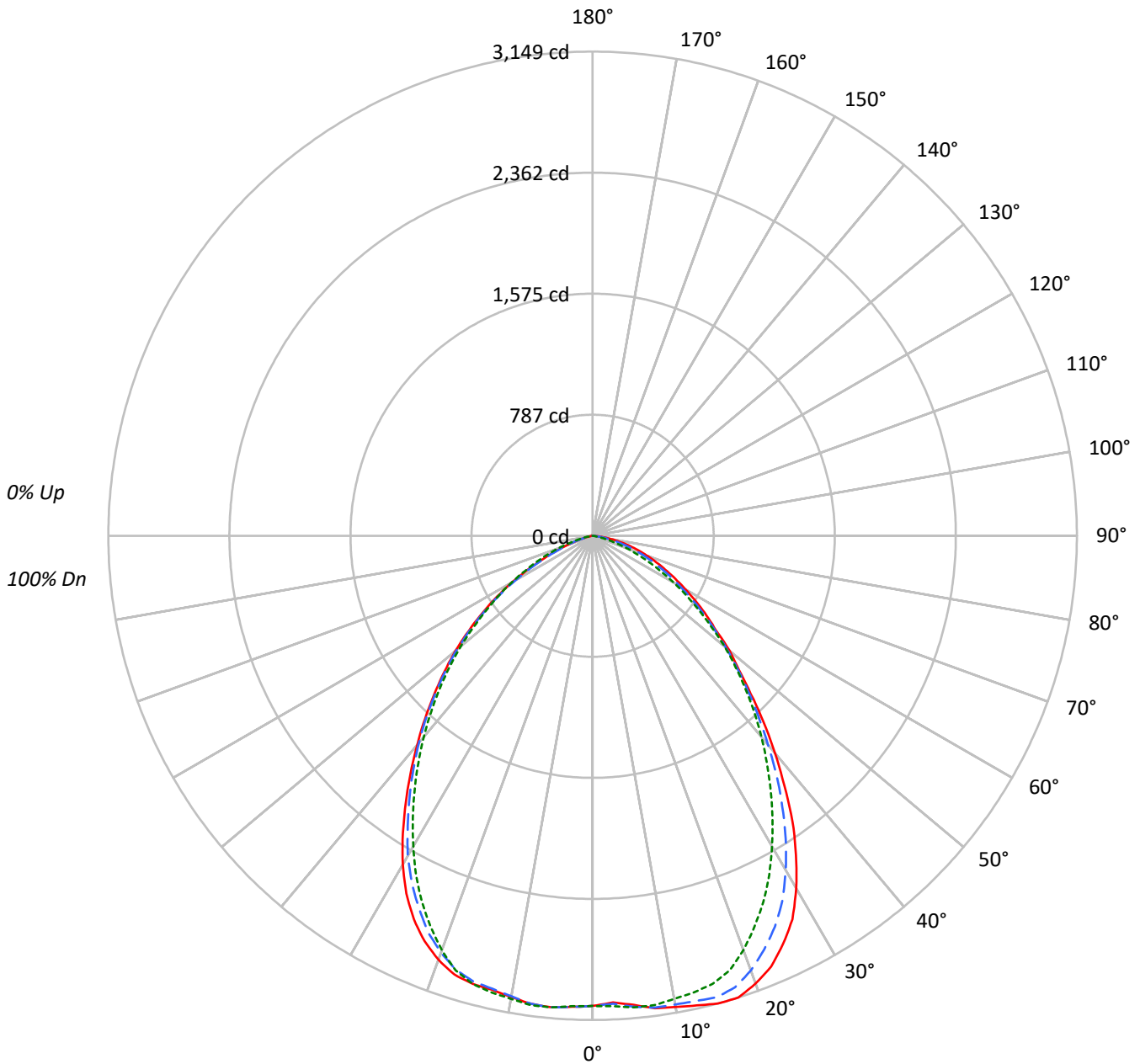
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88			88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77			77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68			68
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60			60
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53			53
6	76	64	56	50	74	63	56	50	62	55	50	60	54	49	58	53	49	47			47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42			42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38			38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35			35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32			32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	167651	167651	167651
5°	168517	169431	169431
10°	173238	170237	169547
15°	178735	171210	171210
20°	180820	167285	171159
25°	177204	158912	166431
30°	167621	147681	156334
35°	151695	135051	141710
40°	131962	122179	126916
45°	112764	108911	112764
50°	98948	95425	99306
55°	86343	80399	83562
60°	76321	66793	65883
65°	67724	52677	45154
70°	59786	37186	27232
75°	50898	21075	13153
80°	37947	6535	3915
85°	20882	2579	2579



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.4	4.8
10°-20°	858.2	13.9
20°-30°	1253.5	20.3
30°-40°	1314.6	21.3
40°-50°	1107.5	17.9
50°-60°	776.0	12.6
60°-70°	416.0	6.7
70°-80°	139.5	2.3
80°-90°	15.2	0.2
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°	2405.1	39.0
0°-40°	3719.8	60.2
0°-60°	5603.3	90.8
0°-90°	6174.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6174.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3058	3058	3058	3058	3058	
5°	3062	3075	3079	3079	3079	294
15°	3149	3108	3017	3000	3017	888
25°	2930	2805	2627	2673	2752	1342
35°	2267	2151	2018	2076	2118	1407
45°	1454	1430	1405	1442	1454	1133
55°	903	874	841	858	874	813
65°	522	476	406	336	348	521
75°	240	186	100	62	62	255
85°	33	16	4	4	4	46
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°	3058.2	3058.2	3058.2	3058.2	3058.2	3058.2	3058.2	3058.2	3058.2
2.5°	3037.4	3037.4	3045.8	3054.0	3062.3	3062.3	3066.5	3070.6	3066.5
5°	3062.3	3062.3	3074.7	3078.9	3078.9	3074.7	3078.9	3078.9	3078.9
7.5°	3099.5	3091.3	3095.4	3087.1	3078.9	3074.7	3070.6	3070.6	3070.6
10°	3112.1	3103.8	3095.4	3078.9	3058.2	3045.8	3041.5	3045.8	3045.8
12.5°	3128.6	3120.3	3099.5	3066.5	3041.5	3020.8	3016.7	3025.0	3025.0
15°	3149.3	3141.0	3107.9	3054.0	3016.7	2996.0	3000.2	3008.4	3016.7
17.5°	3149.3	3132.7	3078.9	3008.4	2962.8	2942.2	2958.7	2979.4	2991.9
20°	3099.5	3083.0	3008.4	2921.4	2867.5	2855.1	2884.1	2921.4	2933.9
22.5°	3033.3	3000.2	2913.1	2809.5	2751.5	2751.5	2792.9	2838.5	2855.1
25°	2929.6	2904.8	2805.3	2685.2	2627.2	2623.0	2672.8	2734.9	2751.5
27.5°	2813.6	2780.5	2672.8	2548.5	2486.3	2490.5	2544.3	2606.5	2623.0
30°	2648.0	2606.5	2511.2	2391.0	2333.0	2349.5	2403.4	2449.0	2469.7
32.5°	2461.4	2424.2	2337.1	2225.2	2175.5	2192.0	2237.6	2279.1	2295.7
35°	2266.7	2225.2	2150.7	2051.2	2018.0	2034.6	2076.0	2109.2	2117.5
37.5°	2047.1	2018.0	1964.1	1885.4	1860.6	1881.3	1914.5	1935.2	1943.4
40°	1844.0	1819.1	1773.5	1715.5	1707.3	1723.8	1757.0	1769.4	1773.5
42.5°	1645.1	1624.4	1595.4	1553.9	1553.9	1570.6	1599.5	1607.8	1611.9
45°	1454.5	1442.0	1429.6	1396.5	1404.8	1425.5	1442.0	1454.5	1454.5
47.5°	1288.8	1292.9	1276.3	1251.4	1259.7	1280.5	1292.9	1305.3	1305.3
50°	1160.2	1147.8	1131.3	1106.4	1118.9	1135.4	1152.0	1160.2	1164.4
52.5°	1011.1	1007.0	994.6	965.5	973.8	982.1	998.7	1011.1	1015.3
55°	903.4	891.0	874.3	841.2	841.2	849.5	857.8	866.0	874.3
57.5°	799.8	787.3	762.4	725.2	721.1	721.1	716.9	725.2	737.6
60°	696.1	692.0	654.8	621.6	609.2	596.8	580.1	584.3	600.9
62.5°	605.0	596.8	563.6	522.1	497.3	476.5	455.8	451.7	468.2
65°	522.1	513.8	476.5	435.1	406.1	368.9	335.7	335.7	348.1
67.5°	447.5	431.0	397.8	352.2	315.0	269.4	236.2	244.5	248.6
70°	373.0	360.5	323.3	277.6	232.0	186.4	165.8	169.9	169.9
72.5°	306.6	290.1	252.7	207.2	161.6	120.2	111.9	107.8	107.8
75°	240.3	223.8	186.4	140.8	99.5	70.4	62.1	62.1	62.1
77.5°	174.0	161.6	128.4	87.1	53.9	33.2	29.1	24.8	24.8
80°	120.2	107.8	78.7	45.6	20.7	12.4	12.4	12.4	12.4
82.5°	70.4	58.0	37.3	20.7	8.3	4.1	4.1	4.1	4.1
85°	33.2	24.8	16.5	8.3	4.1	4.1	4.1	4.1	4.1
87.5°	4.1	4.1	4.1	0.0	0.0	0.0	0.0	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)