

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: P583197

Luminaire Tested: **HC660D010-HM64560840-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583197
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-HM64560840-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6194.7 lumens
Efficiency: N/A
Efficacy: 112.6 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

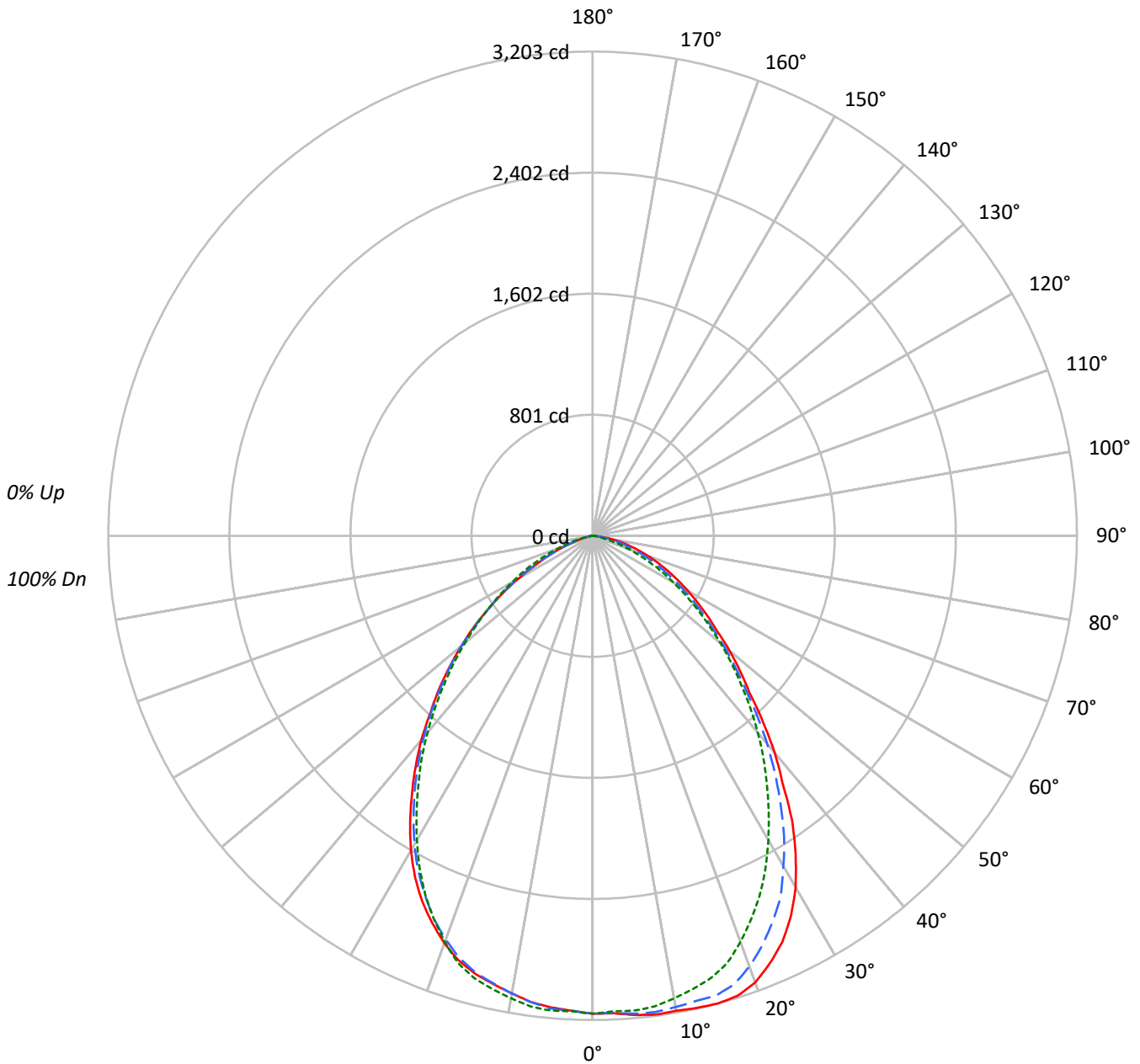
Input Watts (W): 55
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	93	92	90	88				88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77				77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67				67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59
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	61	55	50	60	54	49	58	53	49	47				47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	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°	173308	173308	173308
5°	175115	173514	172375
10°	177602	172982	171139
15°	181777	171897	170251
20°	183468	166790	167268
25°	179448	158398	161404
30°	169957	147143	152125
35°	153896	134482	139474
40°	134023	121571	126022
45°	113717	107608	111469
50°	100713	93993	96474
55°	88704	80389	79997
60°	79500	67692	62243
65°	70954	54286	44609
70°	62430	39173	27889
75°	52656	23701	15801
80°	40535	10481	6535
85°	23461	2579	2579



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.1	4.8
10°-20°	862.5	13.9
20°-30°	1246.8	20.1
30°-40°	1311.9	21.2
40°-50°	1102.8	17.8
50°-60°	774.0	12.5
60°-70°	425.8	6.9
70°-80°	151.2	2.4
80°-90°	19.8	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°	2409.3	38.9
0°-40°	3721.2	60.1
0°-60°	5598.0	90.4
0°-90°	6194.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6194.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3161	3161	3161	3161	3161	
5°	3182	3174	3153	3141	3132	304
15°	3203	3149	3029	2992	3000	904
25°	2967	2818	2619	2623	2668	1357
35°	2300	2167	2010	2051	2084	1425
45°	1467	1425	1388	1421	1438	1151
55°	928	878	841	841	837	835
65°	547	489	418	344	344	544
75°	249	199	112	75	75	267
85°	37	21	4	4	4	51
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°	3161.4	3161.4	3161.4	3161.4	3161.4	3161.4	3161.4	3161.4	3161.4
2.5°	3161.4	3161.4	3157.3	3157.3	3149.0	3149.0	3144.9	3144.9	3144.9
5°	3182.2	3182.2	3173.8	3161.4	3153.1	3140.7	3140.7	3136.6	3132.4
7.5°	3194.6	3190.5	3178.0	3161.4	3140.7	3119.9	3111.7	3115.8	3111.7
10°	3190.5	3182.2	3165.5	3132.4	3107.5	3078.6	3074.4	3070.3	3074.4
12.5°	3198.7	3186.3	3153.1	3111.7	3070.3	3037.1	3033.0	3033.0	3037.1
15°	3202.9	3190.5	3149.0	3086.8	3028.8	2995.7	2991.5	2995.7	2999.8
17.5°	3190.5	3173.8	3111.7	3028.8	2962.6	2929.4	2929.4	2937.6	2945.9
20°	3144.9	3119.9	3033.0	2933.5	2859.0	2834.0	2842.4	2859.0	2867.2
22.5°	3061.9	3033.0	2933.5	2821.6	2742.9	2722.3	2742.9	2763.6	2771.9
25°	2966.7	2933.5	2817.5	2701.5	2618.7	2593.7	2622.8	2655.9	2668.4
27.5°	2838.3	2801.0	2693.2	2560.7	2477.7	2465.3	2498.5	2535.7	2544.0
30°	2684.9	2643.5	2523.3	2399.0	2324.5	2320.4	2357.6	2390.8	2403.2
32.5°	2498.5	2461.2	2357.6	2233.3	2167.0	2167.0	2204.2	2233.3	2245.7
35°	2299.6	2258.1	2167.0	2063.4	2009.5	2013.7	2051.0	2071.7	2084.1
37.5°	2063.4	2051.0	1980.6	1893.5	1856.2	1864.6	1893.5	1910.1	1922.6
40°	1872.8	1839.7	1794.1	1723.6	1698.8	1707.1	1736.1	1752.7	1761.0
42.5°	1665.6	1645.0	1607.6	1557.9	1541.4	1553.8	1578.7	1591.1	1587.0
45°	1466.8	1462.7	1425.3	1396.3	1388.0	1404.7	1421.2	1433.6	1437.8
47.5°	1321.7	1305.2	1272.0	1251.3	1243.1	1259.6	1276.1	1284.4	1284.4
50°	1180.9	1164.3	1131.2	1110.4	1102.1	1118.8	1131.2	1139.4	1131.2
52.5°	1040.0	1023.4	994.4	969.6	965.4	973.7	977.8	982.0	990.2
55°	928.1	911.6	878.4	849.4	841.1	845.3	841.1	841.1	837.0
57.5°	820.4	803.8	770.6	737.5	725.1	721.0	708.5	704.3	700.2
60°	725.1	704.3	671.3	633.9	617.4	600.7	580.1	567.7	567.7
62.5°	633.9	613.3	575.9	542.7	517.9	489.0	455.8	439.2	439.2
65°	547.0	530.3	489.0	451.6	418.5	381.2	343.9	335.6	343.9
67.5°	464.1	447.5	406.0	368.7	327.4	281.8	248.6	248.6	256.8
70°	389.5	373.0	335.6	290.0	244.4	198.8	174.0	174.0	174.0
72.5°	319.1	302.4	261.1	219.6	174.0	128.4	116.0	120.1	116.0
75°	248.6	236.2	198.8	153.3	111.9	78.7	74.6	70.4	74.6
77.5°	186.4	174.0	140.8	99.5	62.1	45.6	41.5	41.5	41.5
80°	128.4	116.0	91.2	58.0	33.2	20.7	20.7	20.7	20.7
82.5°	78.7	66.3	49.7	29.1	12.4	12.4	12.4	12.4	12.4
85°	37.3	29.1	20.7	8.3	4.1	4.1	4.1	4.1	4.1
87.5°	8.3	8.3	4.1	4.1	0.0	4.1	4.1	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)