

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: P581630

Luminaire Tested: **HC610D010-HM60525927-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581630
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: HC610D010-HM60525927-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 913.1 lumens
Efficiency: N/A
Efficacy: 92.2 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

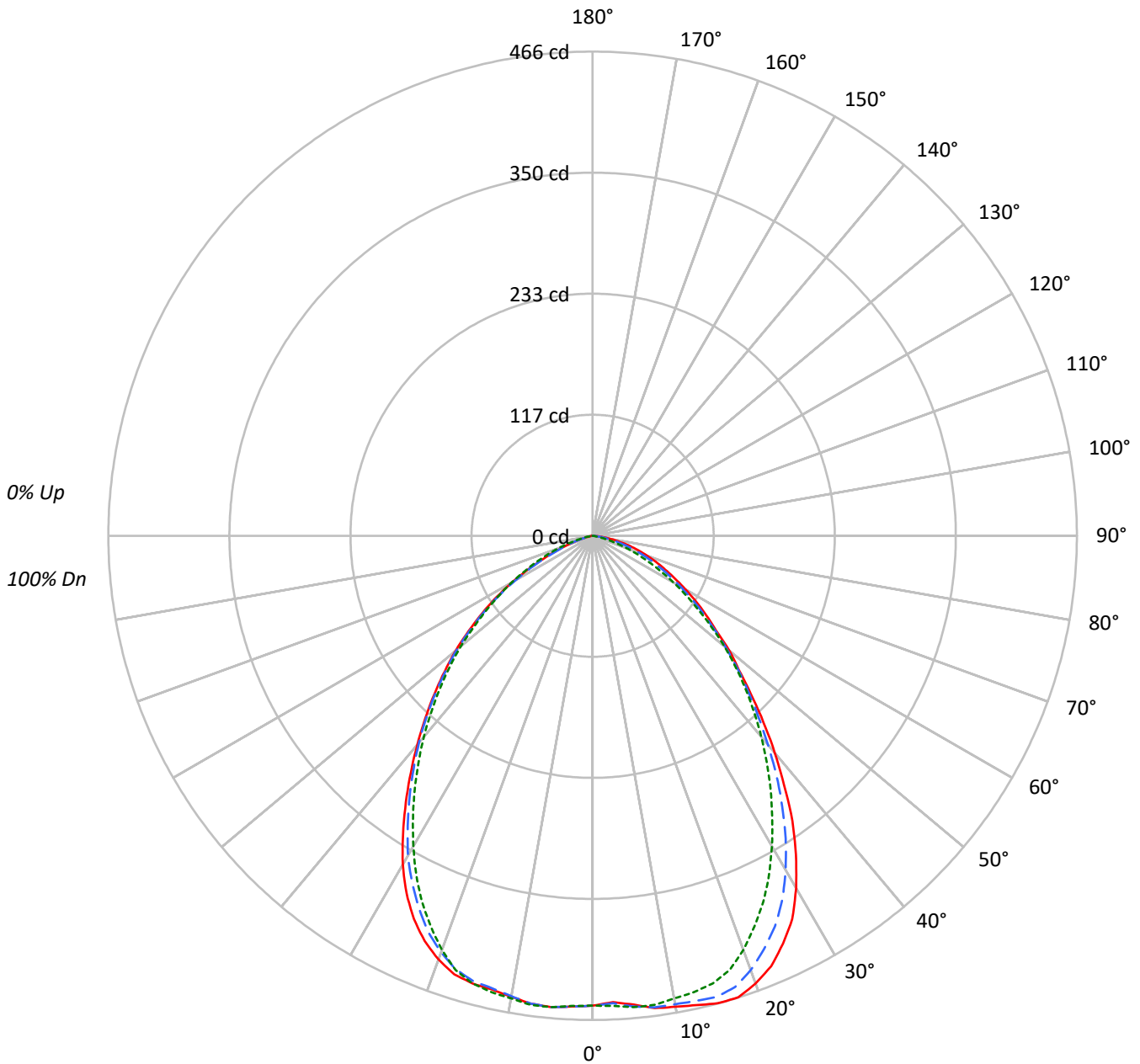
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
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°	24790	24790	24790
5°	24923	25060	25060
10°	25623	25172	25072
15°	26436	25318	25318
20°	26748	24735	25313
25°	26209	23499	24618
30°	24789	21839	23124
35°	22433	19977	20960
40°	19515	18070	18771
45°	16676	16102	16676
50°	14635	14115	14686
55°	12769	11890	12358
60°	11293	9879	9747
65°	10014	7796	6680
70°	8832	5498	4023
75°	7519	3114	1949
80°	5619	979	568
85°	3082	377	377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.4	4.8
10°-20°	126.9	13.9
20°-30°	185.4	20.3
30°-40°	194.4	21.3
40°-50°	163.8	17.9
50°-60°	114.8	12.6
60°-70°	61.5	6.7
70°-80°	20.6	2.3
80°-90°	2.2	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°	355.7	39.0
0°-40°	550.1	60.2
0°-60°	828.7	90.8
0°-90°	913.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	913.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	452	452	452	452	452	
5°	453	455	455	455	455	44
15°	466	460	446	444	446	131
25°	433	415	388	395	407	198
35°	335	318	298	307	313	208
45°	215	212	208	213	215	168
55°	134	129	124	127	129	120
65°	77	70	60	50	52	77
75°	36	28	15	9	9	38
85°	5	2	1	1	1	7
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°	452.2	452.2	452.2	452.2	452.2	452.2	452.2	452.2	452.2
2.5°	449.2	449.2	450.4	451.7	452.9	452.9	453.5	454.2	453.5
5°	452.9	452.9	454.7	455.4	455.4	454.7	455.4	455.4	455.4
7.5°	458.5	457.2	457.8	456.5	455.4	454.7	454.2	454.2	454.2
10°	460.3	459.0	457.8	455.4	452.2	450.4	449.9	450.4	450.4
12.5°	462.6	461.5	458.5	453.5	449.9	446.8	446.1	447.4	447.4
15°	465.8	464.6	459.6	451.7	446.1	443.1	443.7	444.9	446.1
17.5°	465.8	463.3	455.4	444.9	438.2	435.1	437.6	440.7	442.5
20°	458.5	456.0	444.9	432.1	424.0	422.2	426.5	432.1	433.9
22.5°	448.6	443.7	430.8	415.6	407.0	407.0	413.1	419.9	422.2
25°	433.3	429.6	414.9	397.1	388.5	387.9	395.3	404.5	407.0
27.5°	416.1	411.3	395.3	377.0	367.7	368.4	376.3	385.4	387.9
30°	391.6	385.4	371.4	353.6	345.0	347.5	355.4	362.2	365.3
32.5°	364.1	358.5	345.6	329.1	321.7	324.2	331.0	337.1	339.5
35°	335.2	329.1	318.1	303.4	298.5	300.9	307.0	312.0	313.2
37.5°	302.7	298.5	290.5	278.8	275.2	278.2	283.1	286.2	287.4
40°	272.7	269.1	262.3	253.7	252.5	254.9	259.8	261.7	262.3
42.5°	243.3	240.2	235.9	229.8	229.8	232.3	236.6	237.8	238.4
45°	215.1	213.3	211.5	206.5	207.7	210.8	213.3	215.1	215.1
47.5°	190.6	191.2	188.7	185.1	186.3	189.4	191.2	193.0	193.0
50°	171.6	169.8	167.3	163.7	165.5	167.9	170.4	171.6	172.2
52.5°	149.5	149.0	147.0	142.7	144.0	145.2	147.7	149.5	150.1
55°	133.6	131.8	129.3	124.4	124.4	125.7	126.9	128.1	129.3
57.5°	118.3	116.5	112.7	107.2	106.6	106.6	106.1	107.2	109.1
60°	103.0	102.3	96.8	91.9	90.1	88.3	85.8	86.4	88.9
62.5°	89.4	88.3	83.3	77.2	73.6	70.5	67.5	66.8	69.3
65°	77.2	76.0	70.5	64.3	60.1	54.6	49.7	49.7	51.5
67.5°	66.2	63.7	58.9	52.1	46.5	39.8	35.0	36.1	36.8
70°	55.1	53.3	47.8	41.1	34.3	27.6	24.6	25.1	25.1
72.5°	45.4	42.9	37.4	30.7	23.9	17.8	16.5	16.0	16.0
75°	35.5	33.1	27.6	20.8	14.7	10.4	9.2	9.2	9.2
77.5°	25.7	23.9	19.0	12.9	7.9	4.9	4.3	3.6	3.6
80°	17.8	16.0	11.7	6.8	3.1	1.8	1.8	1.8	1.8
82.5°	10.4	8.6	5.5	3.1	1.2	0.6	0.6	0.6	0.6
85°	4.9	3.6	2.5	1.2	0.6	0.6	0.6	0.6	0.6
87.5°	0.6	0.6	0.6	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)