

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: P581612

Luminaire Tested: **HC610D010-HM60525840-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581612
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-HM60525840-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1219.5 lumens
Efficiency: N/A
Efficacy: 123.2 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

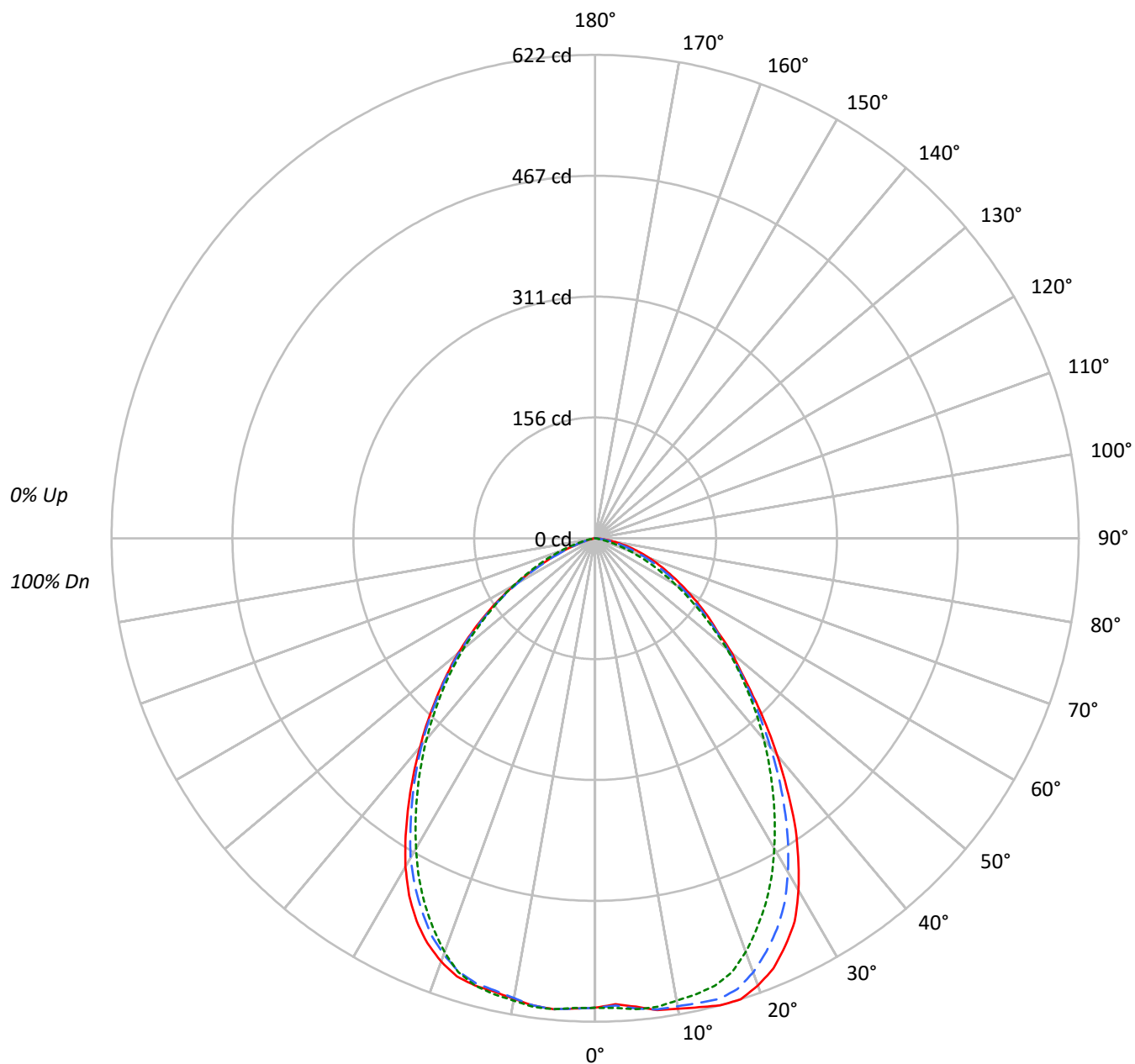
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88		
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77		
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68		
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60		
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53		
6	76	64	56	50	74	63	56	50	62	55	50	60	54	49	58	53	49	47		
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42		
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38		
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35		
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	33111	33111	33111
5°	33287	33469	33469
10°	34218	33622	33494
15°	35301	33820	33820
20°	35721	33049	33807
25°	35004	31387	32875
30°	33113	29169	30884
35°	29961	26676	27994
40°	26070	24131	25076
45°	22274	21514	22274
50°	19547	18848	19616
55°	17051	15885	16506
60°	15076	13190	13003
65°	13374	10416	8911
70°	11813	7341	5369
75°	10040	4173	2584
80°	7514	1294	789
85°	4151	503	503



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.9	4.8
10°-20°	169.5	13.9
20°-30°	247.6	20.3
30°-40°	259.7	21.3
40°-50°	218.8	17.9
50°-60°	153.3	12.6
60°-70°	82.2	6.7
70°-80°	27.6	2.3
80°-90°	3.0	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°	475.1	39.0
0°-40°	734.8	60.2
0°-60°	1106.8	90.8
0°-90°	1219.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1219.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	604	604	604	604	604	
5°	605	607	608	608	608	58
15°	622	614	596	593	596	175
25°	579	554	519	528	544	265
35°	448	425	399	410	418	278
45°	287	282	278	285	287	224
55°	178	173	166	170	173	161
65°	103	94	80	66	69	103
75°	47	37	20	12	12	50
85°	7	3	1	1	1	9
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°	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0
2.5°	600.0	600.0	601.7	603.2	604.9	604.9	605.7	606.5	605.7
5°	604.9	604.9	607.3	608.2	608.2	607.3	608.2	608.2	608.2
7.5°	612.3	610.6	611.4	609.8	608.2	607.3	606.5	606.5	606.5
10°	614.7	613.1	611.4	608.2	604.0	601.7	600.8	601.7	601.7
12.5°	618.0	616.4	612.3	605.7	600.8	596.7	595.9	597.6	597.6
15°	622.0	620.4	613.9	603.2	595.9	591.8	592.6	594.3	595.9
17.5°	622.0	618.9	608.2	594.3	585.2	581.2	584.5	588.5	591.0
20°	612.3	609.0	594.3	577.1	566.5	564.0	569.7	577.1	579.5
22.5°	599.2	592.6	575.4	555.0	543.5	543.5	551.7	560.7	564.0
25°	578.7	573.8	554.1	530.5	518.9	518.1	528.0	540.2	543.5
27.5°	555.8	549.2	528.0	503.4	491.2	492.0	502.6	514.8	518.1
30°	523.1	514.8	496.0	472.3	460.8	464.1	474.8	483.7	487.9
32.5°	486.2	478.8	461.6	439.6	429.7	433.0	442.0	450.2	453.5
35°	447.7	439.6	424.8	405.1	398.6	401.9	410.1	416.6	418.3
37.5°	404.4	398.6	387.9	372.4	367.6	371.6	378.2	382.3	383.9
40°	364.3	359.3	350.4	338.9	337.2	340.5	347.1	349.6	350.4
42.5°	325.0	320.8	315.1	307.0	307.0	310.2	315.9	317.6	318.4
45°	287.3	284.8	282.4	275.9	277.5	281.5	284.8	287.3	287.3
47.5°	254.6	255.4	252.1	247.2	248.8	252.9	255.4	257.9	257.9
50°	229.2	226.7	223.5	218.6	221.0	224.2	227.5	229.2	230.0
52.5°	199.7	198.9	196.4	190.7	192.3	194.0	197.3	199.7	200.6
55°	178.4	176.0	172.7	166.2	166.2	167.8	169.5	171.0	172.7
57.5°	158.0	155.5	150.6	143.2	142.4	142.4	141.6	143.2	145.7
60°	137.5	136.7	129.3	122.8	120.3	117.8	114.6	115.5	118.6
62.5°	119.5	117.8	111.3	103.1	98.3	94.2	90.0	89.2	92.5
65°	103.1	101.5	94.2	85.9	80.3	72.9	66.3	66.3	68.7
67.5°	88.4	85.1	78.6	69.6	62.3	53.2	46.6	48.3	49.1
70°	73.7	71.2	63.8	54.8	45.8	36.8	32.7	33.5	33.5
72.5°	60.6	57.3	49.9	41.0	31.9	23.8	22.1	21.3	21.3
75°	47.4	44.1	36.8	27.8	19.7	13.9	12.2	12.2	12.2
77.5°	34.4	31.9	25.4	17.2	10.6	6.6	5.8	4.9	4.9
80°	23.8	21.3	15.5	9.1	4.1	2.5	2.5	2.5	2.5
82.5°	13.9	11.4	7.4	4.1	1.6	0.8	0.8	0.8	0.8
85°	6.6	4.9	3.3	1.6	0.8	0.8	0.8	0.8	0.8
87.5°	0.8	0.8	0.8	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)