

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: P581666

Luminaire Tested: **HC610D010-HM60525935-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581666
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-HM60525935-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1049.4 lumens
Efficiency: N/A
Efficacy: 106.0 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

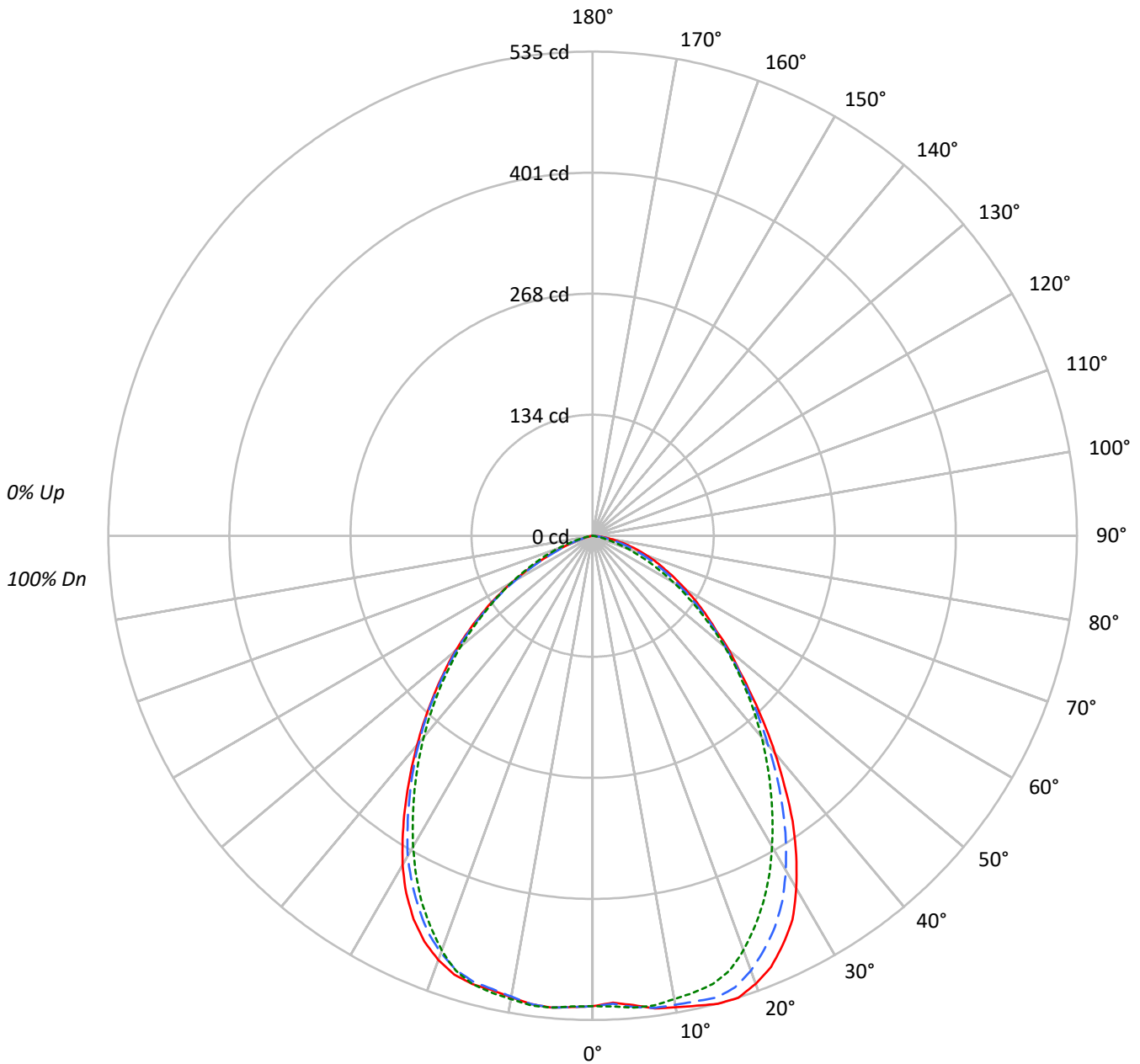
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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			
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°	28496	28496	28496
5°	28643	28797	28797
10°	29447	28935	28818
15°	30380	29103	29103
20°	30733	28434	29088
25°	30123	27014	28284
30°	28492	25099	26567
35°	25779	22955	24086
40°	22435	20760	21576
45°	19165	18506	19165
50°	16818	16221	16878
55°	14671	13667	14203
60°	12970	11359	11194
65°	11506	8963	7679
70°	10162	6315	4632
75°	8663	3580	2224
80°	6440	1105	695
85°	3585	440	440



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.9	4.8
10°-20°	145.9	13.9
20°-30°	213.1	20.3
30°-40°	223.4	21.3
40°-50°	188.2	17.9
50°-60°	131.9	12.6
60°-70°	70.7	6.7
70°-80°	23.7	2.3
80°-90°	2.6	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°	408.8	39.0
0°-40°	632.2	60.2
0°-60°	952.4	90.8
0°-90°	1049.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1049.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	520	520	520	520	520	
5°	520	523	523	523	523	50
15°	535	528	513	510	513	151
25°	498	477	447	454	468	228
35°	385	366	343	353	360	239
45°	247	243	239	245	247	193
55°	154	149	143	146	149	138
65°	89	81	69	57	59	89
75°	41	32	17	10	10	43
85°	6	3	1	1	1	8
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°	519.8	519.8	519.8	519.8	519.8	519.8	519.8	519.8	519.8
2.5°	516.3	516.3	517.7	519.1	520.5	520.5	521.2	521.9	521.2
5°	520.5	520.5	522.6	523.3	523.3	522.6	523.3	523.3	523.3
7.5°	526.8	525.5	526.2	524.7	523.3	522.6	521.9	521.9	521.9
10°	529.0	527.5	526.2	523.3	519.8	517.7	517.0	517.7	517.7
12.5°	531.8	530.3	526.8	521.2	517.0	513.5	512.8	514.2	514.2
15°	535.3	533.9	528.2	519.1	512.8	509.2	510.0	511.3	512.8
17.5°	535.3	532.5	523.3	511.3	503.6	500.1	502.8	506.5	508.5
20°	526.8	524.0	511.3	496.5	487.4	485.3	490.2	496.5	498.6
22.5°	515.5	510.0	495.1	477.5	467.6	467.6	474.8	482.5	485.3
25°	498.0	493.8	476.8	456.4	446.6	445.8	454.3	464.8	467.6
27.5°	478.3	472.6	454.3	433.1	422.6	423.3	432.4	443.1	445.8
30°	450.1	443.1	426.8	406.4	396.5	399.4	408.5	416.2	419.7
32.5°	418.4	412.0	397.2	378.2	369.7	372.5	380.4	387.4	390.2
35°	385.2	378.2	365.5	348.7	343.0	345.8	352.8	358.5	359.9
37.5°	348.0	343.0	333.8	320.5	316.3	319.8	325.4	329.0	330.3
40°	313.5	309.1	301.5	291.6	290.1	293.0	298.6	300.8	301.5
42.5°	279.6	276.1	271.1	264.1	264.1	266.9	271.9	273.3	273.9
45°	247.2	245.1	243.0	237.4	238.7	242.2	245.1	247.2	247.2
47.5°	219.0	219.7	216.9	212.7	214.1	217.7	219.7	221.9	221.9
50°	197.2	195.0	192.3	188.0	190.2	193.0	195.8	197.2	197.9
52.5°	171.8	171.2	169.0	164.1	165.5	167.0	169.7	171.8	172.5
55°	153.5	151.5	148.6	143.0	143.0	144.3	145.8	147.2	148.6
57.5°	136.0	133.8	129.6	123.3	122.6	122.6	121.8	123.3	125.3
60°	118.3	117.6	111.3	105.6	103.6	101.4	98.6	99.3	102.1
62.5°	102.8	101.4	95.8	88.7	84.6	81.1	77.4	76.7	79.6
65°	88.7	87.4	81.1	73.9	69.1	62.7	57.1	57.1	59.2
67.5°	76.1	73.2	67.6	59.9	53.5	45.7	40.2	41.5	42.2
70°	63.4	61.2	54.9	47.2	39.4	31.7	28.2	28.9	28.9
72.5°	52.1	49.4	43.0	35.2	27.5	20.4	19.0	18.3	18.3
75°	40.9	38.0	31.7	24.0	16.9	12.0	10.5	10.5	10.5
77.5°	29.5	27.5	21.8	14.8	9.2	5.7	5.0	4.2	4.2
80°	20.4	18.3	13.4	7.7	3.5	2.2	2.2	2.2	2.2
82.5°	12.0	9.8	6.3	3.5	1.4	0.7	0.7	0.7	0.7
85°	5.7	4.2	2.8	1.4	0.7	0.7	0.7	0.7	0.7
87.5°	0.7	0.7	0.7	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)