

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: P593083

Luminaire Tested: **HC610D010-HM60525950-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593083
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-HM60525950-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1062.5 lumens
Efficiency: N/A
Efficacy: 107.3 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

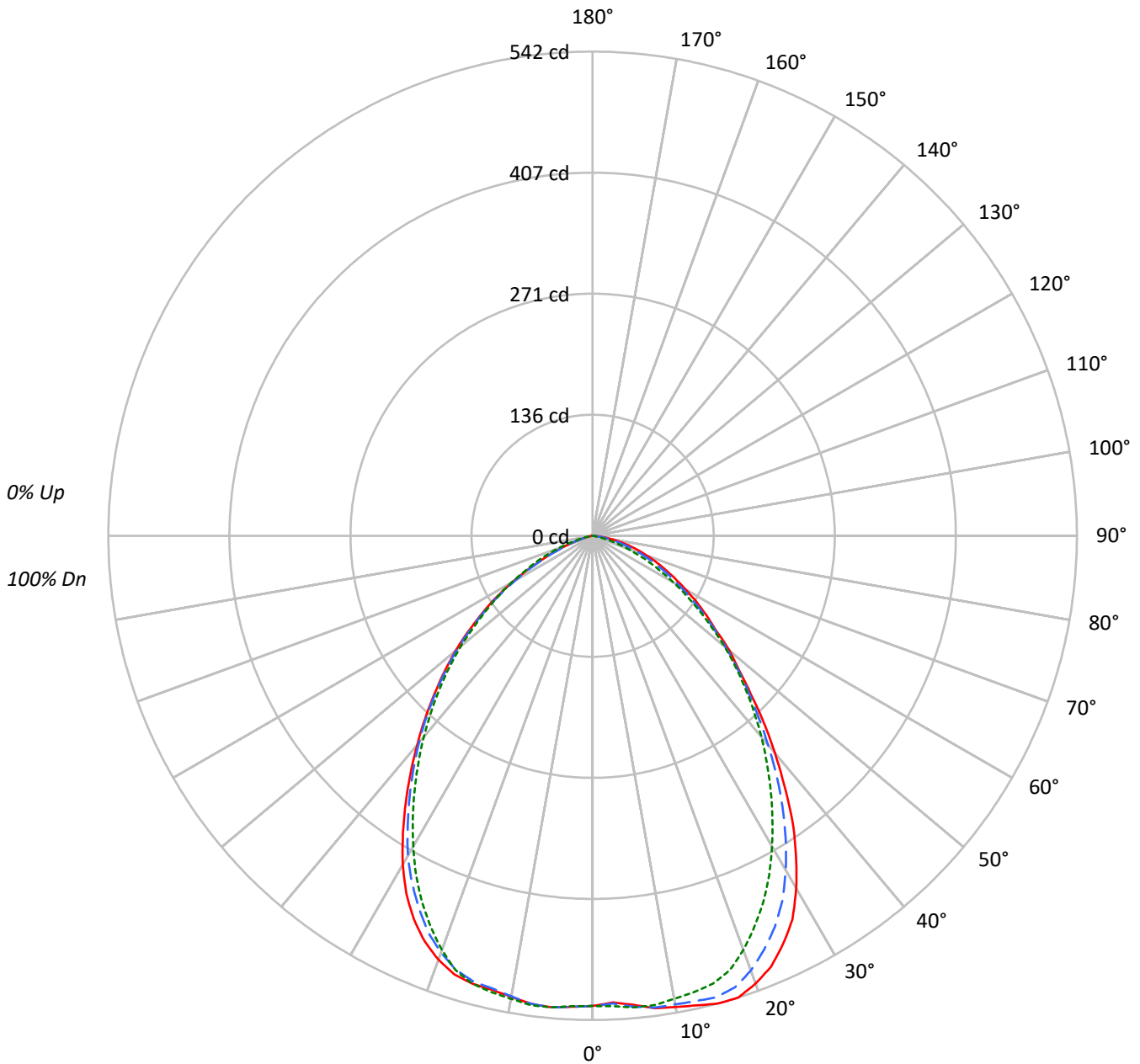
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	28852	28852	28852
5°	29006	29160	29160
10°	29809	29297	29174
15°	30761	29461	29461
20°	31118	28784	29455
25°	30498	27346	28641
30°	28846	25415	26909
35°	26107	23242	24387
40°	22707	21032	21841
45°	19405	18746	19405
50°	17031	16426	17091
55°	14853	13839	14375
60°	13135	11490	11337
65°	11661	9054	7770
70°	10290	6411	4680
75°	8748	3622	2245
80°	6535	1105	695
85°	3585	440	440



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.5	4.8
10°-20°	147.7	13.9
20°-30°	215.7	20.3
30°-40°	226.2	21.3
40°-50°	190.6	17.9
50°-60°	133.5	12.6
60°-70°	71.6	6.7
70°-80°	24.0	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°	413.9	39.0
0°-40°	640.2	60.3
0°-60°	964.3	90.8
0°-90°	1062.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1062.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	526	526	526	526	526	
5°	527	529	530	530	530	51
15°	542	535	519	516	519	153
25°	504	483	452	460	474	231
35°	390	370	347	357	364	242
45°	250	246	242	248	250	195
55°	155	150	145	148	150	140
65°	90	82	70	58	60	90
75°	41	32	17	11	11	44
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°	526.3	526.3	526.3	526.3	526.3	526.3	526.3	526.3	526.3
2.5°	522.8	522.8	524.1	525.6	527.1	527.1	527.7	528.4	527.7
5°	527.1	527.1	529.1	529.9	529.9	529.1	529.9	529.9	529.9
7.5°	533.4	532.0	532.7	531.2	529.9	529.1	528.4	528.4	528.4
10°	535.5	534.2	532.7	529.9	526.3	524.1	523.4	524.1	524.1
12.5°	538.4	537.0	533.4	527.7	523.4	519.9	519.1	520.6	520.6
15°	542.0	540.5	534.9	525.6	519.1	515.6	516.3	517.8	519.1
17.5°	542.0	539.2	529.9	517.8	509.9	506.3	509.2	512.8	514.8
20°	533.4	530.6	517.8	502.7	493.4	491.4	496.4	502.7	504.9
22.5°	522.0	516.3	501.4	483.5	473.5	473.5	480.6	488.5	491.4
25°	504.2	499.9	482.8	462.1	452.1	451.4	459.9	470.7	473.5
27.5°	484.3	478.5	459.9	438.5	427.9	428.6	437.9	448.6	451.4
30°	455.7	448.6	432.2	411.5	401.5	404.4	413.6	421.4	425.1
32.5°	423.6	417.1	402.2	383.0	374.4	377.3	385.1	392.2	395.1
35°	390.1	383.0	370.2	353.0	347.3	350.1	357.3	363.0	364.4
37.5°	352.3	347.3	338.0	324.4	320.2	323.8	329.5	333.0	334.5
40°	317.3	313.1	305.2	295.2	293.9	296.7	302.4	304.5	305.2
42.5°	283.1	279.6	274.5	267.4	267.4	270.3	275.3	276.7	277.5
45°	250.3	248.1	246.0	240.3	241.8	245.3	248.1	250.3	250.3
47.5°	221.8	222.6	219.6	215.4	216.8	220.4	222.6	224.6	224.6
50°	199.7	197.5	194.7	190.4	192.6	195.4	198.2	199.7	200.4
52.5°	174.0	173.3	171.2	166.2	167.5	169.0	171.8	174.0	174.7
55°	155.4	153.3	150.4	144.8	144.8	146.1	147.6	149.1	150.4
57.5°	137.7	135.5	131.2	124.7	124.1	124.1	123.4	124.7	126.9
60°	119.8	119.1	112.6	107.0	104.8	102.7	99.8	100.5	103.4
62.5°	104.1	102.7	97.0	89.9	85.6	82.0	78.4	77.8	80.6
65°	89.9	88.4	82.0	74.8	69.8	63.5	57.7	57.7	59.9
67.5°	77.0	74.1	68.5	60.6	54.2	46.3	40.6	42.1	42.8
70°	64.2	62.0	55.6	47.8	40.0	32.0	28.5	29.2	29.2
72.5°	52.8	49.9	43.5	35.7	27.8	20.7	19.2	18.6	18.6
75°	41.3	38.5	32.0	24.2	17.1	12.1	10.6	10.6	10.6
77.5°	30.0	27.8	22.1	14.9	9.3	5.7	5.0	4.3	4.3
80°	20.7	18.6	13.6	7.8	3.5	2.2	2.2	2.2	2.2
82.5°	12.1	10.0	6.5	3.5	1.5	0.7	0.7	0.7	0.7
85°	5.7	4.3	2.8	1.5	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)