

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: P581675

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC610D010-HM60525935-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1009.2 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

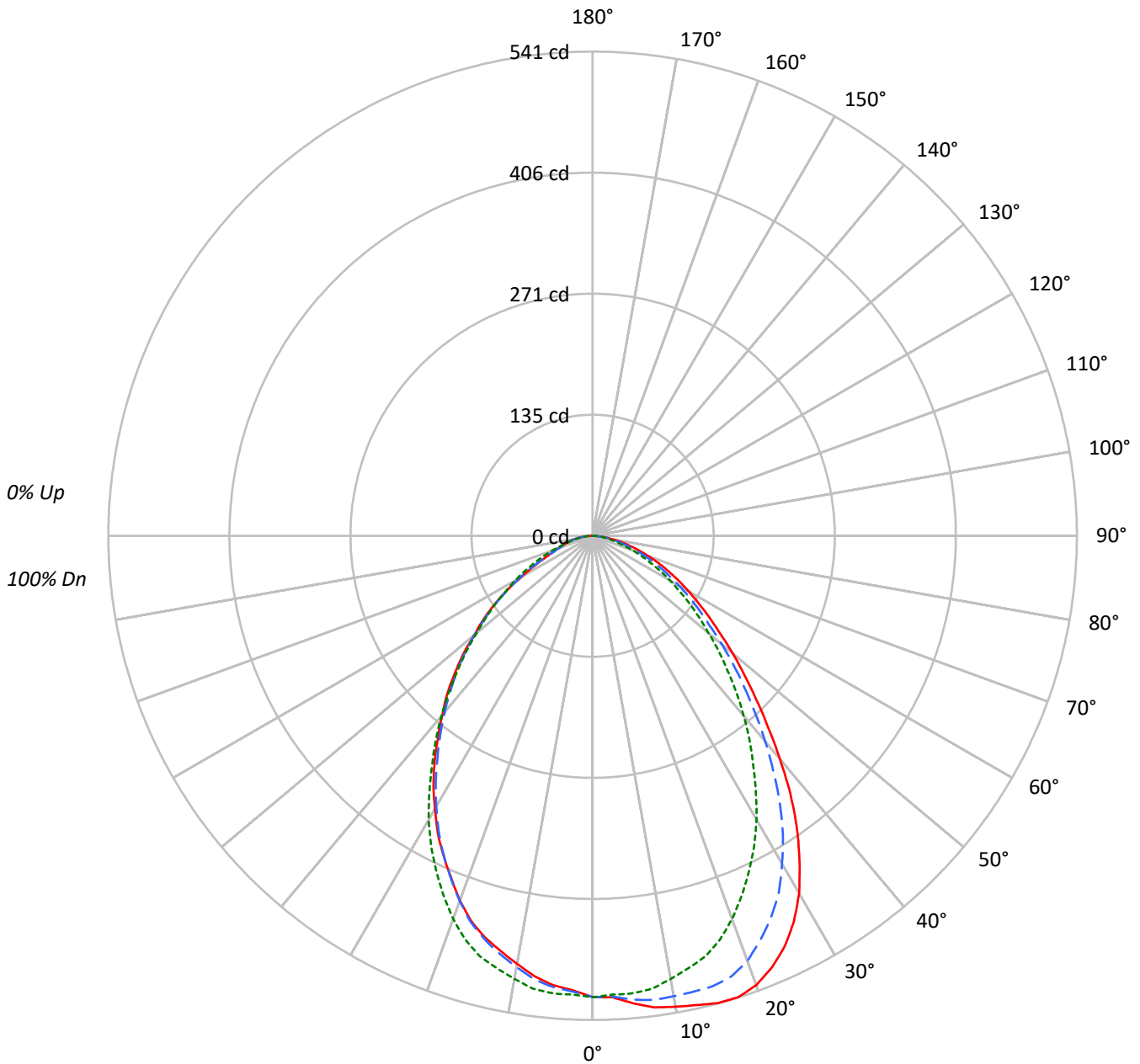
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76				76				
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66				66				
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58				58				
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52				52				
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46				46				
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42				42				
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38				38				
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34				34				
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31				31				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	28254	28254	28254
5°	28863	28241	27740
10°	29742	27983	27037
15°	30681	27611	26374
20°	31170	26573	25301
25°	30661	24999	23850
30°	29194	23174	22288
35°	26622	20913	20592
40°	23272	18792	18692
45°	20025	16537	16916
50°	17415	14413	14712
55°	15216	12645	12788
60°	13508	10964	10043
65°	12051	9223	7666
70°	10611	7565	6443
75°	9087	5973	6121
80°	7324	5114	5998
85°	4843	4403	5346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.8	4.8
10°-20°	138.9	13.8
20°-30°	198.3	19.6
30°-40°	207.7	20.6
40°-50°	174.9	17.3
50°-60°	124.5	12.3
60°-70°	72.8	7.2
70°-80°	34.5	3.4
80°-90°	8.9	0.9
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°	386.0	38.2
0°-40°	593.7	58.8
0°-60°	893.0	88.5
0°-90°	1009.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1009.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	515	515	515	515	515	
5°	524	520	513	506	504	50
15°	541	521	486	467	465	153
25°	507	471	413	394	394	232
35°	398	365	312	302	308	247
45°	258	239	213	214	218	201
55°	159	146	132	132	134	143
65°	93	82	71	60	59	93
75°	43	36	28	28	29	46
85°	8	6	7	8	8	10
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°	515.4	515.4	515.4	515.4	515.4	515.4	515.4	515.4	515.4
2.5°	516.1	516.1	515.4	514.6	513.2	511.1	509.7	508.3	508.3
5°	524.5	523.1	520.3	516.8	513.2	509.1	506.2	504.1	504.1
7.5°	531.6	528.8	523.1	516.8	510.4	504.8	499.9	497.1	496.4
10°	534.3	530.8	522.4	512.6	502.7	494.9	489.3	485.7	485.7
12.5°	537.1	532.9	521.7	507.6	494.9	484.4	478.7	475.9	475.2
15°	540.6	535.1	520.9	503.4	486.5	474.5	466.7	464.7	464.7
17.5°	540.6	533.6	516.1	494.2	473.1	459.7	452.7	450.5	451.3
20°	534.3	526.6	505.4	478.7	455.5	441.5	434.3	433.0	433.7
22.5°	522.4	513.2	489.3	460.4	435.1	420.3	414.0	414.0	413.3
25°	506.9	497.1	471.0	440.7	413.3	398.5	393.6	394.3	394.3
27.5°	486.5	476.6	450.5	418.2	390.8	375.9	372.4	373.8	374.6
30°	461.2	450.5	423.1	391.4	366.1	351.3	349.2	351.3	352.1
32.5°	430.2	422.5	395.6	363.3	339.4	326.7	326.0	328.1	330.9
35°	397.8	389.3	364.7	335.1	312.5	302.0	302.0	305.5	307.7
37.5°	362.6	354.1	331.6	307.0	288.0	278.1	279.5	283.0	283.7
40°	325.2	318.9	299.9	278.8	262.6	254.8	257.0	260.5	261.2
42.5°	290.0	284.5	269.0	249.9	237.9	232.3	235.1	239.4	240.8
45°	258.3	252.1	239.4	223.2	213.3	210.6	214.1	216.9	218.2
47.5°	229.6	223.9	213.3	198.6	191.5	190.1	193.6	195.0	196.4
50°	204.2	198.6	188.0	174.6	169.0	169.0	171.8	173.2	172.5
52.5°	179.5	174.6	164.7	153.5	150.0	150.0	152.0	152.8	154.2
55°	159.2	154.2	145.7	135.2	132.3	131.0	132.3	132.3	133.8
57.5°	140.1	135.8	128.1	118.3	114.8	113.3	112.6	112.0	113.3
60°	123.2	119.7	111.3	102.8	100.0	96.4	93.6	90.8	91.6
62.5°	107.8	104.1	96.4	88.0	85.2	80.3	76.7	73.2	74.6
65°	92.9	89.4	82.4	75.3	71.1	65.4	59.9	57.7	59.1
67.5°	79.6	76.7	69.7	62.7	59.1	52.8	47.2	47.2	47.9
70°	66.2	63.4	57.7	51.4	47.2	41.5	39.4	40.2	40.2
72.5°	54.2	52.1	46.4	40.9	36.6	33.1	33.1	33.8	34.5
75°	42.9	41.5	35.9	31.0	28.2	26.0	27.5	28.2	28.9
77.5°	33.1	31.0	26.7	23.2	21.2	21.8	23.2	23.9	24.7
80°	23.2	22.5	19.0	16.9	16.2	16.9	18.3	19.0	19.0
82.5°	14.8	14.0	12.0	11.3	11.3	12.0	13.4	13.4	13.4
85°	7.7	7.0	6.3	6.3	7.0	7.7	8.5	8.5	8.5
87.5°	2.8	2.2	2.8	2.8	3.5	3.5	3.5	3.5	3.5
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)