

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: P581620

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC610D010-HM60525840-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1132.8 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

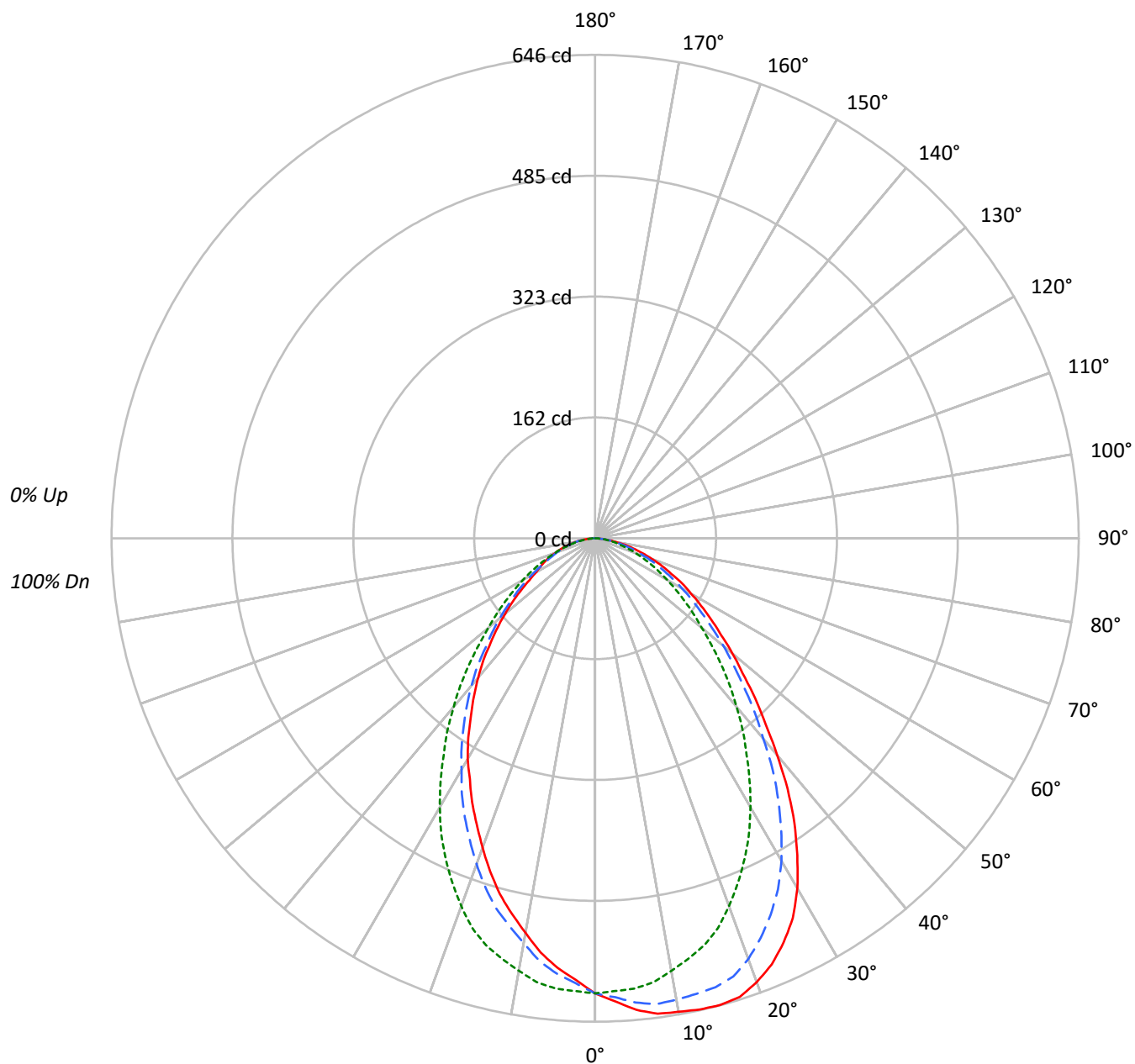
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76		
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66		
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58		
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51		
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46		
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42		
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38		
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34		
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	33336	33336	33336
5°	34817	33238	31708
10°	35765	32665	29798
15°	36652	31958	27917
20°	36817	30511	25646
25°	36044	28568	23511
30°	34195	26270	21554
35°	31059	23604	19334
40°	27058	21032	17390
45°	23413	18405	15288
50°	20451	15846	13398
55°	18064	13925	11498
60°	16249	12203	9966
65°	14554	10611	9664
70°	12999	9056	9056
75°	11268	7625	8494
80°	9029	6472	7766
85°	6164	5724	6667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.2	5.0
10°-20°	158.9	14.0
20°-30°	221.4	19.5
30°-40°	228.1	20.1
40°-50°	189.1	16.7
50°-60°	135.9	12.0
60°-70°	86.5	7.6
70°-80°	44.4	3.9
80°-90°	11.3	1.0
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°	437.4	38.6
0°-40°	665.6	58.8
0°-60°	990.5	87.4
0°-90°	1132.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1132.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	608	608	608	608	608	
5°	633	623	604	584	576	61
15°	646	621	563	512	492	182
25°	596	555	472	412	389	273
35°	464	426	353	306	289	288
45°	302	281	237	207	197	234
55°	189	174	146	129	120	170
65°	112	100	82	71	74	112
75°	53	46	36	38	40	57
85°	10	9	9	10	11	13
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°	608.1	608.1	608.1	608.1	608.1	608.1	608.1	608.1	608.1
2.5°	619.5	617.2	613.9	610.6	605.6	600.0	595.0	593.4	590.9
5°	632.7	629.4	622.8	614.7	604.0	593.4	584.3	578.7	576.2
7.5°	640.8	636.7	627.8	613.9	598.3	582.8	569.6	561.5	558.2
10°	642.5	638.4	626.1	607.3	586.8	565.5	549.2	539.4	535.3
12.5°	644.9	639.2	623.6	601.5	575.4	550.8	530.3	518.1	514.0
15°	645.8	639.2	621.2	594.2	563.1	533.6	511.6	496.8	491.9
17.5°	642.5	635.2	613.9	581.1	546.0	514.8	488.6	473.1	466.5
20°	631.1	622.8	598.3	561.5	523.0	490.3	463.2	446.9	439.6
22.5°	616.3	605.6	577.9	538.6	498.4	464.1	437.1	420.7	413.3
25°	595.9	586.0	554.9	513.1	472.3	436.3	411.7	394.5	388.7
27.5°	572.1	560.7	528.8	487.0	445.2	409.2	385.4	369.9	362.6
30°	540.2	529.5	497.6	455.9	415.0	381.4	356.8	343.8	340.5
32.5°	502.5	493.6	462.4	423.1	383.9	352.7	332.2	318.4	315.1
35°	464.1	453.5	426.4	389.6	352.7	324.9	306.1	293.9	288.9
37.5°	422.3	412.5	389.6	356.8	324.1	297.9	281.5	270.9	266.0
40°	378.1	370.7	349.4	323.3	293.9	270.9	257.0	248.0	243.0
42.5°	337.2	329.9	315.1	290.6	266.0	245.5	233.3	225.0	221.0
45°	302.0	295.5	280.7	259.5	237.4	220.2	207.0	201.4	197.2
47.5°	266.8	263.5	250.4	230.8	210.3	195.6	186.7	180.1	176.8
50°	239.8	235.7	223.5	203.0	185.8	174.3	166.2	160.4	157.1
52.5°	212.0	207.8	196.4	179.2	165.4	154.7	146.5	141.6	138.3
55°	189.0	185.8	173.5	157.9	145.7	136.6	129.3	123.6	120.3
57.5°	167.8	164.5	153.0	138.3	127.7	119.5	113.0	108.0	103.9
60°	148.2	145.7	134.3	120.3	111.3	103.1	97.4	93.3	90.9
62.5°	131.0	126.0	116.3	103.9	95.8	89.2	83.4	81.1	82.6
65°	112.2	109.7	99.8	89.2	81.8	75.3	71.2	72.8	74.5
67.5°	96.6	93.3	85.1	75.3	68.7	63.8	61.4	64.6	65.4
70°	81.1	77.8	70.4	62.3	56.5	53.2	53.2	55.7	56.5
72.5°	66.3	63.8	57.3	50.7	46.6	44.1	45.8	47.4	48.3
75°	53.2	50.7	45.8	40.1	36.0	36.0	37.7	39.3	40.1
77.5°	41.0	39.3	34.4	30.3	28.6	28.6	30.3	31.1	31.9
80°	28.6	27.1	24.6	22.1	20.5	22.1	23.8	23.8	24.6
82.5°	18.8	18.0	16.4	14.7	14.7	15.5	16.4	17.2	17.2
85°	9.8	9.8	9.1	8.2	9.1	9.8	9.8	10.6	10.6
87.5°	3.3	3.3	3.3	3.3	4.1	4.1	4.1	4.1	4.1
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)