

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: P581655

Luminaire Tested: **HC610D010-HM60525930-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC610D010-HM60525930-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 847.7 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

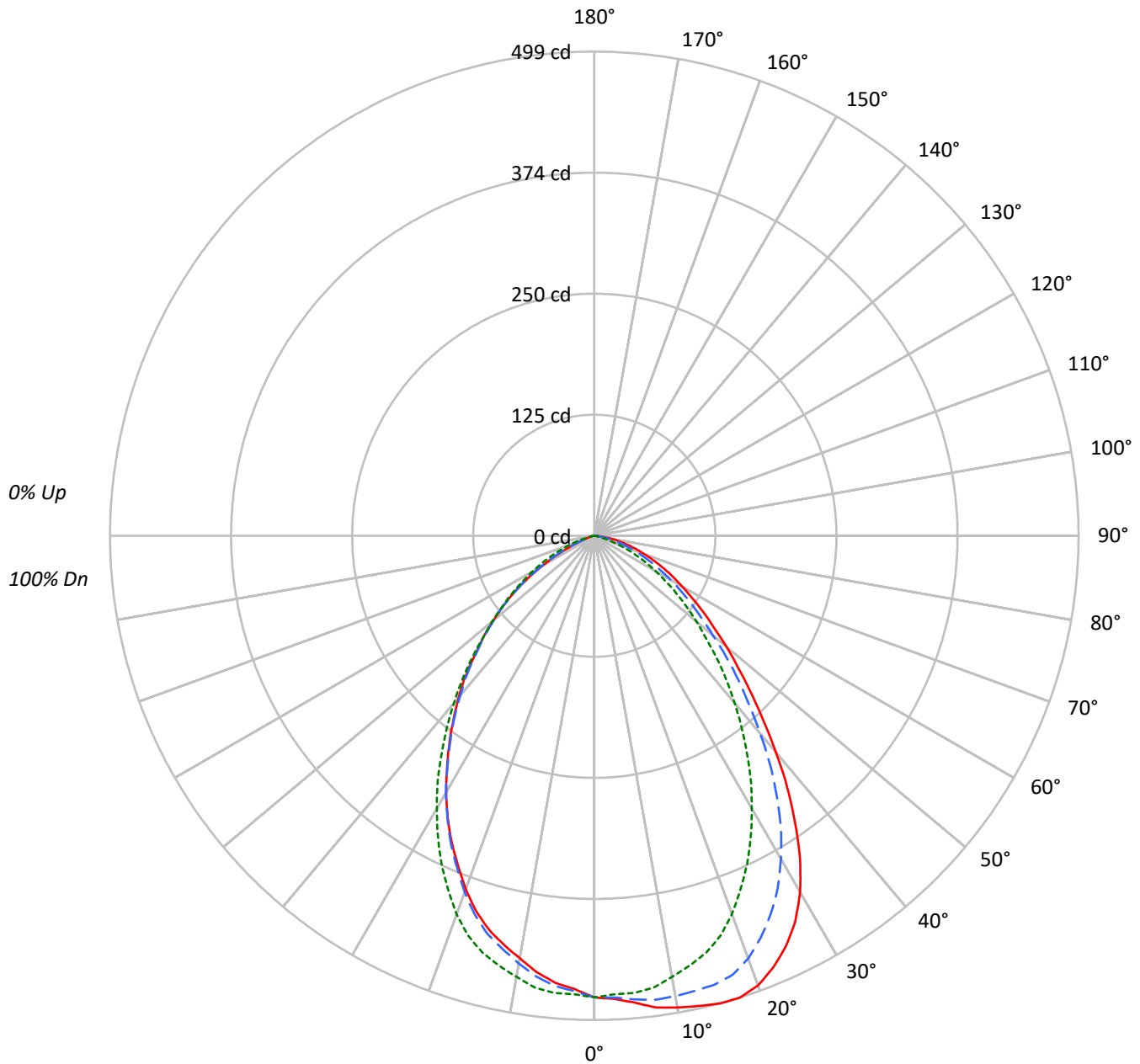
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89		
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78		
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69		
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61		
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54		
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49		
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44		
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40		
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37		
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	26078	26078	26078
5°	26579	26023	25440
10°	27482	25695	24615
15°	28326	25250	23842
20°	28767	24199	22600
25°	28242	22544	21044
30°	26852	20535	19313
35°	24126	18357	17413
40°	20825	16087	15565
45°	17630	13846	13490
50°	15121	11701	11582
55°	13113	9844	9462
60°	11446	7993	6754
65°	10079	6161	3736
70°	8687	4087	1811
75°	7371	1991	720
80°	5714	852	442
85°	3334	440	440



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.9	5.3
10°-20°	126.9	15.0
20°-30°	178.7	21.1
30°-40°	182.6	21.5
40°-50°	147.3	17.4
50°-60°	98.8	11.7
60°-70°	50.0	5.9
70°-80°	16.0	1.9
80°-90°	2.5	0.3
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°	350.6	41.4
0°-40°	533.2	62.9
0°-60°	779.2	91.9
0°-90°	847.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	847.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	476	476	476	476	476	
5°	483	480	473	466	462	47
15°	499	479	445	425	420	141
25°	467	430	373	350	348	214
35°	360	328	274	259	260	224
45°	227	209	179	173	174	177
55°	137	122	103	98	99	123
65°	78	64	48	32	29	77
75°	35	25	9	3	3	37
85°	5	3	1	1	1	7
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°	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7
2.5°	477.7	477.0	476.3	475.0	472.9	470.9	469.7	468.3	467.6
5°	483.0	481.7	479.6	477.0	472.9	468.3	465.6	463.0	462.3
7.5°	490.4	487.7	482.3	476.3	469.7	463.0	458.2	455.6	453.6
10°	493.7	489.0	481.7	471.6	461.6	453.6	447.6	443.5	442.2
12.5°	496.4	491.1	480.3	466.9	453.6	442.8	436.2	432.9	431.5
15°	499.1	493.7	478.9	461.6	444.9	432.2	424.8	421.4	420.1
17.5°	499.1	491.7	474.3	452.2	432.2	416.8	409.4	406.0	405.4
20°	493.1	485.1	463.6	437.5	414.8	397.3	390.7	388.7	387.4
22.5°	481.7	472.3	448.3	418.8	394.0	377.3	369.9	368.6	367.2
25°	466.9	457.6	430.2	398.7	372.7	355.9	349.9	348.5	347.9
27.5°	448.3	438.2	409.4	377.3	349.2	333.1	327.8	327.8	327.1
30°	424.2	412.7	384.7	352.5	324.4	309.7	305.8	305.8	305.1
32.5°	394.7	383.3	357.9	327.1	300.3	285.0	281.6	283.0	282.3
35°	360.5	351.3	327.8	297.7	274.3	260.2	258.9	260.2	260.2
37.5°	326.5	317.8	297.7	271.6	249.5	236.8	236.8	238.9	238.2
40°	291.0	284.4	265.6	242.8	224.8	216.1	214.7	216.8	217.5
42.5°	257.5	252.2	236.1	217.5	201.4	192.7	194.7	196.1	196.6
45°	227.4	222.1	209.4	189.9	178.6	172.6	172.6	174.6	174.0
47.5°	200.7	196.6	184.0	165.3	155.2	152.5	153.8	155.2	155.2
50°	177.3	171.3	159.3	144.6	137.2	133.8	135.2	135.8	135.8
52.5°	155.2	151.2	139.1	125.8	119.1	117.0	117.0	117.7	117.7
55°	137.2	132.4	121.8	108.3	103.0	100.3	98.4	97.7	99.0
57.5°	119.8	115.7	105.7	92.9	86.9	84.3	80.3	78.9	80.3
60°	104.4	101.0	91.0	78.9	72.9	67.6	62.9	60.2	61.6
62.5°	91.0	86.9	77.0	66.9	60.2	54.2	46.9	42.8	44.8
65°	77.7	74.3	64.2	54.2	47.5	40.2	31.5	28.8	28.8
67.5°	65.5	62.3	52.9	44.1	36.1	27.4	19.4	18.7	19.4
70°	54.2	50.8	42.8	34.1	25.5	16.8	11.3	11.3	11.3
72.5°	44.8	40.8	33.4	24.8	16.1	8.7	6.0	6.7	6.7
75°	34.8	31.5	24.8	16.8	9.4	4.0	3.4	3.4	3.4
77.5°	26.0	23.4	17.4	10.8	4.6	1.4	1.4	1.4	1.4
80°	18.1	15.4	11.3	6.7	2.7	1.4	1.4	1.4	1.4
82.5°	10.8	9.4	6.7	3.4	1.4	0.7	0.7	0.7	0.7
85°	5.3	4.6	2.7	1.4	0.7	0.7	0.7	0.7	0.7
87.5°	1.4	1.4	0.7	0.7	0.0	0.7	0.7	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)