

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: P581673

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581673
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-HM60525935-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 892.3 lumens
Efficiency: N/A
Efficacy: 90.1 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

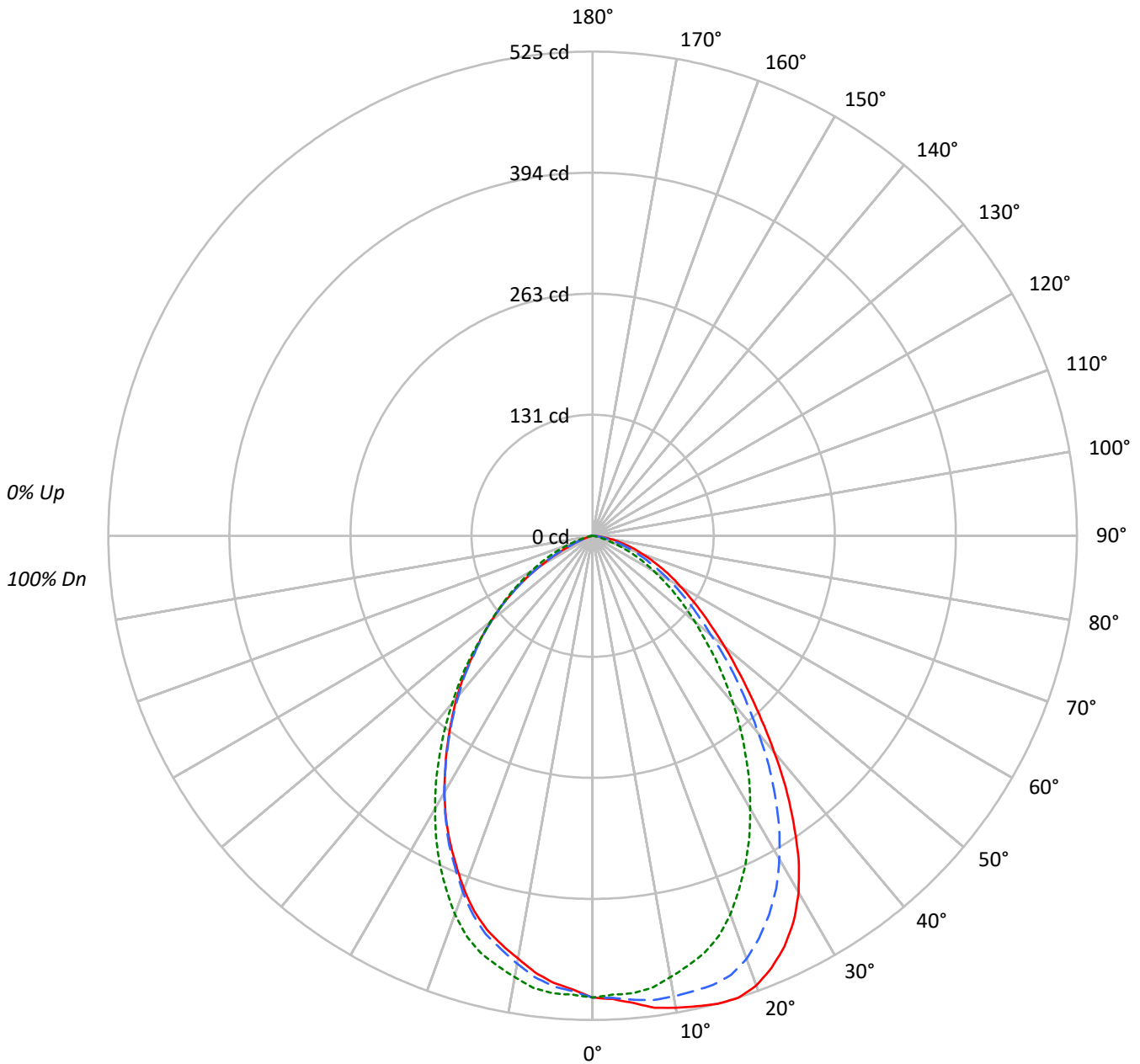
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: HC610D010-HM60525935-61WWBB

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	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°	27448	27448	27448
5°	27983	27405	26777
10°	28930	27054	25912
15°	29819	26578	25102
20°	30278	25471	23785
25°	29736	23723	22150
30°	28264	21617	20326
35°	25404	19327	18330
40°	21920	16932	16381
45°	18560	14575	14203
50°	15923	12307	12196
55°	13792	10360	9969
60°	12049	8409	7105
65°	10598	6486	3930
70°	9152	4280	1923
75°	7773	2076	741
80°	5998	884	442
85°	3585	440	440



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.3	5.3
10°-20°	133.6	15.0
20°-30°	188.2	21.1
30°-40°	192.3	21.5
40°-50°	155.0	17.4
50°-60°	104.0	11.7
60°-70°	52.6	5.9
70°-80°	16.8	1.9
80°-90°	2.6	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°	369.1	41.4
0°-40°	561.3	62.9
0°-60°	820.3	91.9
0°-90°	892.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	892.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	501	501	501	501	501	
5°	508	505	498	490	487	49
15°	525	504	468	447	442	148
25°	492	453	392	368	366	225
35°	380	345	289	273	274	236
45°	239	220	188	182	183	186
55°	144	128	108	104	104	130
65°	82	68	50	33	30	82
75°	37	26	10	4	4	39
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°	500.7	500.7	500.7	500.7	500.7	500.7	500.7	500.7	500.7
2.5°	502.8	502.2	501.5	500.0	498.0	495.8	494.3	493.0	492.3
5°	508.5	507.0	505.0	502.2	498.0	493.0	490.2	487.3	486.6
7.5°	516.2	513.4	507.8	501.5	494.3	487.3	482.5	479.6	477.5
10°	519.7	514.8	507.0	496.5	486.0	477.5	471.1	466.9	465.5
12.5°	522.5	517.0	505.7	491.6	477.5	466.3	459.1	455.6	454.3
15°	525.4	519.7	504.3	486.0	468.3	455.0	447.3	443.7	442.3
17.5°	525.4	517.7	499.3	476.1	455.0	438.8	431.1	427.4	426.8
20°	519.0	510.6	488.0	460.6	436.6	418.4	411.3	409.2	407.7
22.5°	507.0	497.2	471.8	440.9	414.8	397.2	389.4	388.0	386.7
25°	491.6	481.7	452.8	419.7	392.2	374.7	368.4	366.9	366.2
27.5°	471.8	461.3	431.1	397.2	367.7	350.7	345.1	345.1	344.4
30°	446.5	434.6	404.9	371.2	341.5	326.1	321.8	321.8	321.1
32.5°	415.6	403.6	376.7	344.4	316.2	300.0	296.5	297.9	297.2
35°	379.6	369.7	345.1	313.5	288.8	273.9	272.6	273.9	273.9
37.5°	343.7	334.5	313.5	285.9	262.7	249.3	249.3	251.4	250.7
40°	306.3	299.3	279.6	255.6	236.6	227.5	226.1	228.2	228.9
42.5°	271.1	265.5	248.6	228.9	212.0	202.9	204.9	206.4	207.0
45°	239.4	233.9	220.4	200.0	188.0	181.7	181.7	183.8	183.2
47.5°	211.2	207.0	193.7	174.0	163.3	160.5	162.0	163.3	163.3
50°	186.7	180.3	167.6	152.1	144.3	140.8	142.3	143.0	143.0
52.5°	163.3	159.2	146.5	132.4	125.3	123.3	123.3	124.0	124.0
55°	144.3	139.5	128.1	114.1	108.4	105.6	103.6	102.8	104.3
57.5°	126.1	121.8	111.3	97.9	91.6	88.7	84.6	83.1	84.6
60°	109.9	106.3	95.8	83.1	76.7	71.1	66.2	63.4	64.8
62.5°	95.8	91.6	80.9	70.4	63.4	57.1	49.4	45.1	47.2
65°	81.7	78.2	67.6	57.1	50.0	42.2	33.1	30.3	30.3
67.5°	69.1	65.5	55.6	46.5	38.0	28.9	20.4	19.7	20.4
70°	57.1	53.5	45.1	35.9	26.7	17.7	12.0	12.0	12.0
72.5°	47.2	43.0	35.2	26.0	16.9	9.2	6.3	7.0	7.0
75°	36.7	33.1	26.0	17.7	9.8	4.2	3.5	3.5	3.5
77.5°	27.5	24.7	18.3	11.3	5.0	1.4	1.4	1.4	1.4
80°	19.0	16.2	12.0	7.0	2.8	1.4	1.4	1.4	1.4
82.5°	11.3	9.8	7.0	3.5	1.4	0.7	0.7	0.7	0.7
85°	5.7	5.0	2.8	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)