

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: P581818

Luminaire Tested: **HC615D010-HM60525935-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581818
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: HC615D010-HM60525935-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1331.8 lumens
Efficiency: N/A
Efficacy: 95.1 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

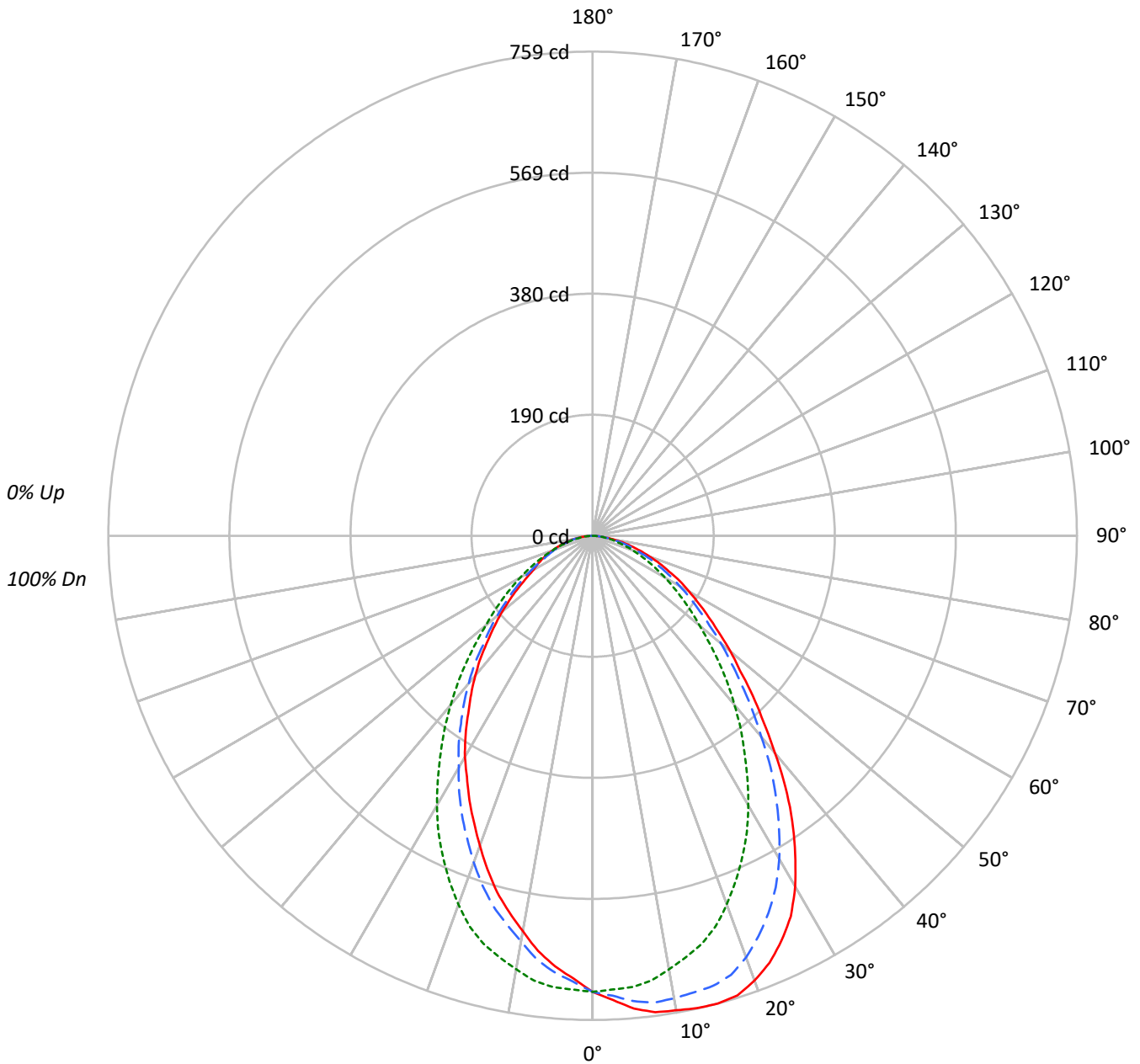
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	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°	39191	39191	39191
5°	40936	39082	37283
10°	42044	38409	35036
15°	43088	37571	32821
20°	43281	35866	30149
25°	42371	33583	27649
30°	40196	30878	25339
35°	36513	27753	22734
40°	31817	24725	20453
45°	27522	21638	17979
50°	24042	18635	15761
55°	21237	16372	13514
60°	19099	14352	11710
65°	17097	12479	11363
70°	15259	10643	10643
75°	13238	8960	9976
80°	10639	7608	9092
85°	7296	6667	7862



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.2	5.0
10°-20°	186.8	14.0
20°-30°	260.3	19.5
30°-40°	268.2	20.1
40°-50°	222.3	16.7
50°-60°	159.8	12.0
60°-70°	101.7	7.6
70°-80°	52.2	3.9
80°-90°	13.3	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°	514.3	38.6
0°-40°	782.5	58.8
0°-60°	1164.6	87.4
0°-90°	1331.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1331.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	715	715	715	715	715	
5°	744	732	710	687	678	71
15°	759	730	662	601	578	214
25°	700	652	555	484	457	321
35°	546	501	415	360	340	339
45°	355	330	279	244	232	275
55°	222	204	171	152	141	200
65°	132	117	96	84	88	132
75°	62	54	42	44	47	67
85°	12	11	11	12	12	15
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°	714.9	714.9	714.9	714.9	714.9	714.9	714.9	714.9	714.9
2.5°	728.4	725.5	721.7	717.9	712.1	705.3	699.6	697.7	694.7
5°	743.9	740.0	732.3	722.7	710.2	697.7	687.0	680.3	677.5
7.5°	753.4	748.6	738.1	721.7	703.4	685.1	669.8	660.1	656.3
10°	755.3	750.6	736.2	714.0	690.0	664.9	645.7	634.1	629.4
12.5°	758.3	751.5	733.2	707.2	676.5	647.6	623.6	609.2	604.3
15°	759.2	751.5	730.4	698.6	662.0	627.4	601.4	584.1	578.3
17.5°	755.3	746.7	721.7	683.2	641.8	605.3	574.4	556.2	548.4
20°	741.9	732.3	703.4	660.1	614.8	576.4	544.7	525.4	516.8
22.5°	724.6	712.1	679.3	633.2	586.0	545.6	513.8	494.6	485.9
25°	700.5	688.9	652.4	603.4	555.2	512.9	484.0	463.8	457.1
27.5°	672.6	659.1	621.6	572.5	523.5	481.1	453.2	434.9	426.3
30°	635.0	622.5	585.1	535.9	487.8	448.4	419.5	404.2	400.3
32.5°	590.9	580.2	543.7	497.5	451.3	414.7	390.7	374.3	370.5
35°	545.6	533.1	501.3	458.1	414.7	382.0	359.9	345.5	339.7
37.5°	496.6	485.0	458.1	419.5	381.0	350.3	331.0	318.5	312.7
40°	444.6	436.0	410.9	380.1	345.5	318.5	302.1	291.6	285.8
42.5°	396.5	387.8	370.5	341.6	312.7	288.6	274.2	264.6	259.8
45°	355.0	347.4	330.1	305.1	279.1	258.9	243.5	236.8	231.9
47.5°	313.7	309.9	294.4	271.4	247.3	230.0	219.4	211.7	207.8
50°	281.9	277.2	262.8	238.7	218.5	205.0	195.3	188.6	184.8
52.5°	249.2	244.4	231.0	210.8	194.4	181.8	172.3	166.5	162.6
55°	222.2	218.5	204.0	185.7	171.3	160.7	152.1	145.3	141.4
57.5°	197.3	193.4	179.9	162.6	150.2	140.5	132.8	127.0	122.2
60°	174.2	171.3	157.8	141.4	130.9	121.2	114.5	109.6	106.8
62.5°	153.9	148.2	136.7	122.2	112.6	104.9	98.2	95.2	97.2
65°	131.8	128.9	117.4	104.9	96.2	88.5	83.8	85.7	87.6
67.5°	113.5	109.6	100.1	88.5	80.8	75.0	72.2	76.0	77.0
70°	95.2	91.4	82.7	73.1	66.4	62.5	62.5	65.5	66.4
72.5°	78.0	75.0	67.3	59.7	54.8	52.0	53.9	55.8	56.8
75°	62.5	59.7	53.9	47.1	42.3	42.3	44.3	46.2	47.1
77.5°	48.1	46.2	40.4	35.6	33.7	33.7	35.6	36.5	37.6
80°	33.7	31.8	28.8	26.0	24.1	26.0	27.9	27.9	28.8
82.5°	22.1	21.2	19.3	17.4	17.4	18.3	19.3	20.2	20.2
85°	11.6	11.6	10.6	9.6	10.6	11.6	11.6	12.5	12.5
87.5°	3.9	3.9	3.9	3.9	4.8	4.8	4.8	4.8	4.8
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)