

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: P581799

Luminaire Tested: **HC615D010-HM60525930-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581799
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: HC615D010-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: 1158.1 lumens
Efficiency: N/A
Efficacy: 82.7 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

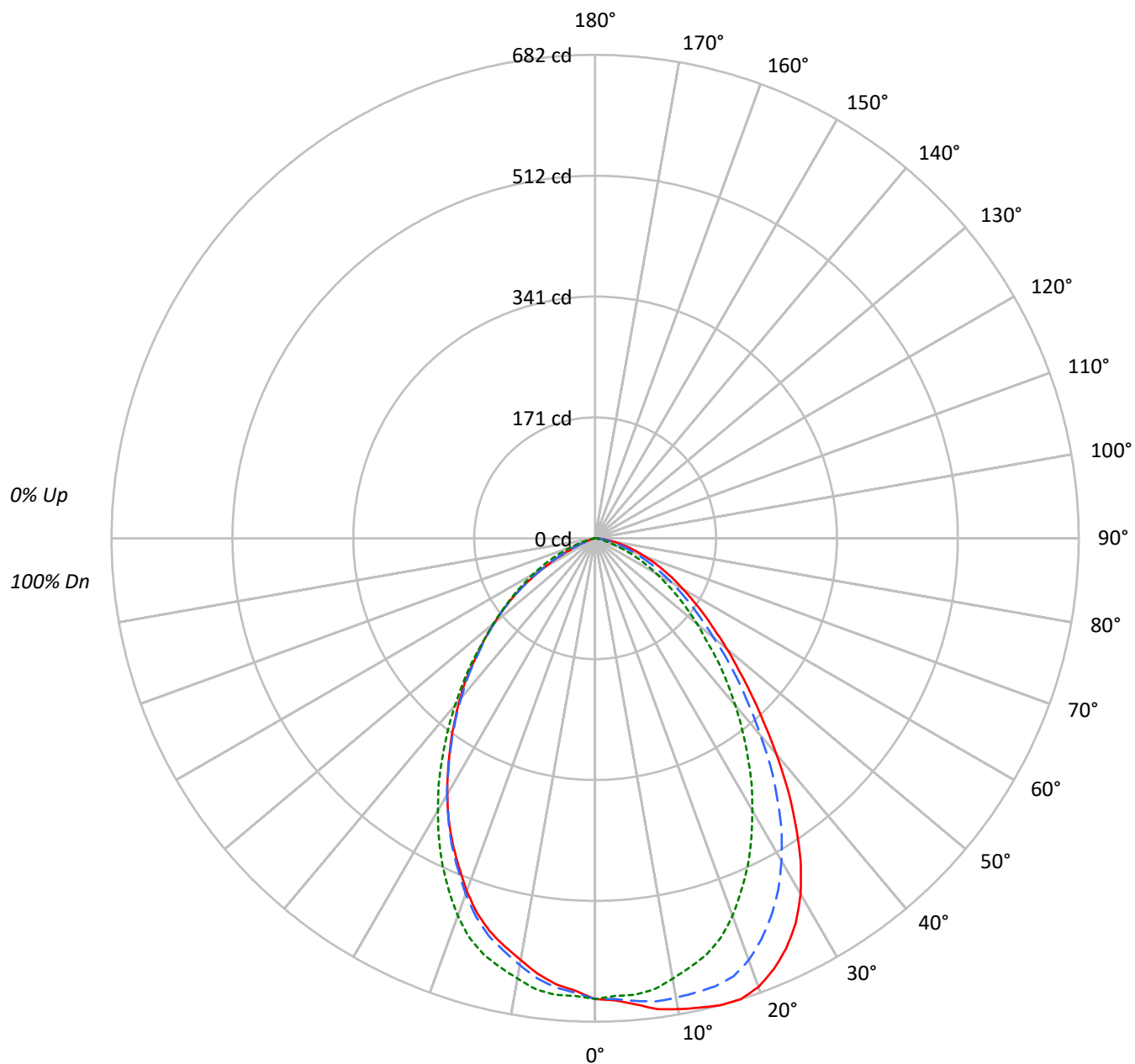
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					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	67	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°	35628	35628	35628
5°	36320	35566	34757
10°	37547	35108	33633
15°	38701	34495	32582
20°	39297	33060	30879
25°	38591	30800	28750
30°	36683	28061	26384
35°	32973	25083	23798
40°	28453	21977	21254
45°	24096	18917	18428
50°	20656	15982	15829
55°	17911	13448	12931
60°	15635	10931	9221
65°	13750	8419	5098
70°	11861	5562	2484
75°	10082	2711	953
80°	7766	1137	568
85°	4592	566	566



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	5.3
10°-20°	173.4	15.0
20°-30°	244.2	21.1
30°-40°	249.5	21.5
40°-50°	201.2	17.4
50°-60°	134.9	11.7
60°-70°	68.3	5.9
70°-80°	21.8	1.9
80°-90°	3.3	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°	479.0	41.4
0°-40°	728.5	62.9
0°-60°	1064.7	91.9
0°-90°	1158.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1158.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	650	650	650	650	650	
5°	660	655	646	636	632	64
15°	682	654	608	580	574	193
25°	638	588	509	478	475	292
35°	493	448	375	354	356	307
45°	311	286	244	236	238	242
55°	187	166	141	134	135	169
65°	106	88	65	43	39	106
75°	48	34	13	4	4	51
85°	7	4	1	1	1	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°	649.9	649.9	649.9	649.9	649.9	649.9	649.9	649.9	649.9
2.5°	652.6	651.7	650.8	649.0	646.3	643.5	641.6	639.8	638.9
5°	660.0	658.1	655.3	651.7	646.3	639.8	636.2	632.5	631.6
7.5°	670.0	666.4	659.0	650.8	641.6	632.5	626.2	622.4	619.7
10°	674.5	668.2	658.1	644.5	630.7	619.7	611.5	606.0	604.2
12.5°	678.3	670.9	656.3	638.0	619.7	605.1	596.0	591.4	589.5
15°	681.9	674.5	654.4	630.7	607.8	590.4	580.4	575.9	574.1
17.5°	681.9	671.8	648.1	617.9	590.4	569.4	559.4	554.8	553.9
20°	673.6	662.7	633.4	597.8	566.7	543.0	533.8	531.1	529.3
22.5°	658.1	645.4	612.4	572.2	538.3	515.5	505.5	503.6	501.8
25°	638.0	625.3	587.7	544.8	509.2	486.2	478.1	476.2	475.3
27.5°	612.4	598.7	559.4	515.5	477.2	455.2	447.9	447.9	447.0
30°	579.5	564.0	525.6	481.7	443.3	423.2	417.7	417.7	416.8
32.5°	539.2	523.8	489.1	447.0	410.4	389.4	384.8	386.7	385.8
35°	492.7	479.9	447.9	406.8	374.8	355.6	353.8	355.6	355.6
37.5°	446.1	434.1	406.8	371.1	341.0	323.6	323.6	326.3	325.4
40°	397.6	388.5	362.9	331.8	307.1	295.2	293.4	296.1	297.0
42.5°	352.0	344.6	322.7	297.0	275.1	263.2	266.0	267.9	268.8
45°	310.8	303.5	286.1	259.6	244.0	235.9	235.9	238.6	237.7
47.5°	274.2	268.8	251.4	225.8	212.0	208.4	210.2	212.0	212.0
50°	242.2	234.0	217.6	197.5	187.4	182.8	184.7	185.6	185.6
52.5°	212.0	206.6	190.1	171.8	162.8	159.9	159.9	160.8	160.8
55°	187.4	181.0	166.4	148.1	140.7	137.1	134.4	133.5	135.3
57.5°	163.7	158.1	144.4	127.0	118.8	115.2	109.6	107.8	109.6
60°	142.6	138.0	124.3	107.8	99.7	92.3	85.9	82.3	84.1
62.5°	124.3	118.8	105.1	91.4	82.3	74.0	64.0	58.5	61.3
65°	106.0	101.5	87.7	74.0	64.9	54.8	43.0	39.3	39.3
67.5°	89.6	85.0	72.2	60.4	49.4	37.5	26.6	25.5	26.6
70°	74.0	69.5	58.5	46.6	34.7	22.8	15.5	15.5	15.5
72.5°	61.3	55.7	45.7	33.8	21.9	11.9	8.2	9.2	9.2
75°	47.6	43.0	33.8	22.8	12.8	5.4	4.5	4.5	4.5
77.5°	35.6	32.0	23.7	14.6	6.4	1.8	1.8	1.8	1.8
80°	24.6	21.0	15.5	9.2	3.6	1.8	1.8	1.8	1.8
82.5°	14.6	12.8	9.2	4.5	1.8	0.9	0.9	0.9	0.9
85°	7.3	6.4	3.6	1.8	0.9	0.9	0.9	0.9	0.9
87.5°	1.8	1.8	0.9	0.9	0.0	0.9	0.9	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)