

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: P581709

Luminaire Tested: **HC615D010-HM60525827-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581709
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-HM60525827-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1256.2 lumens
Efficiency: N/A
Efficacy: 89.7 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

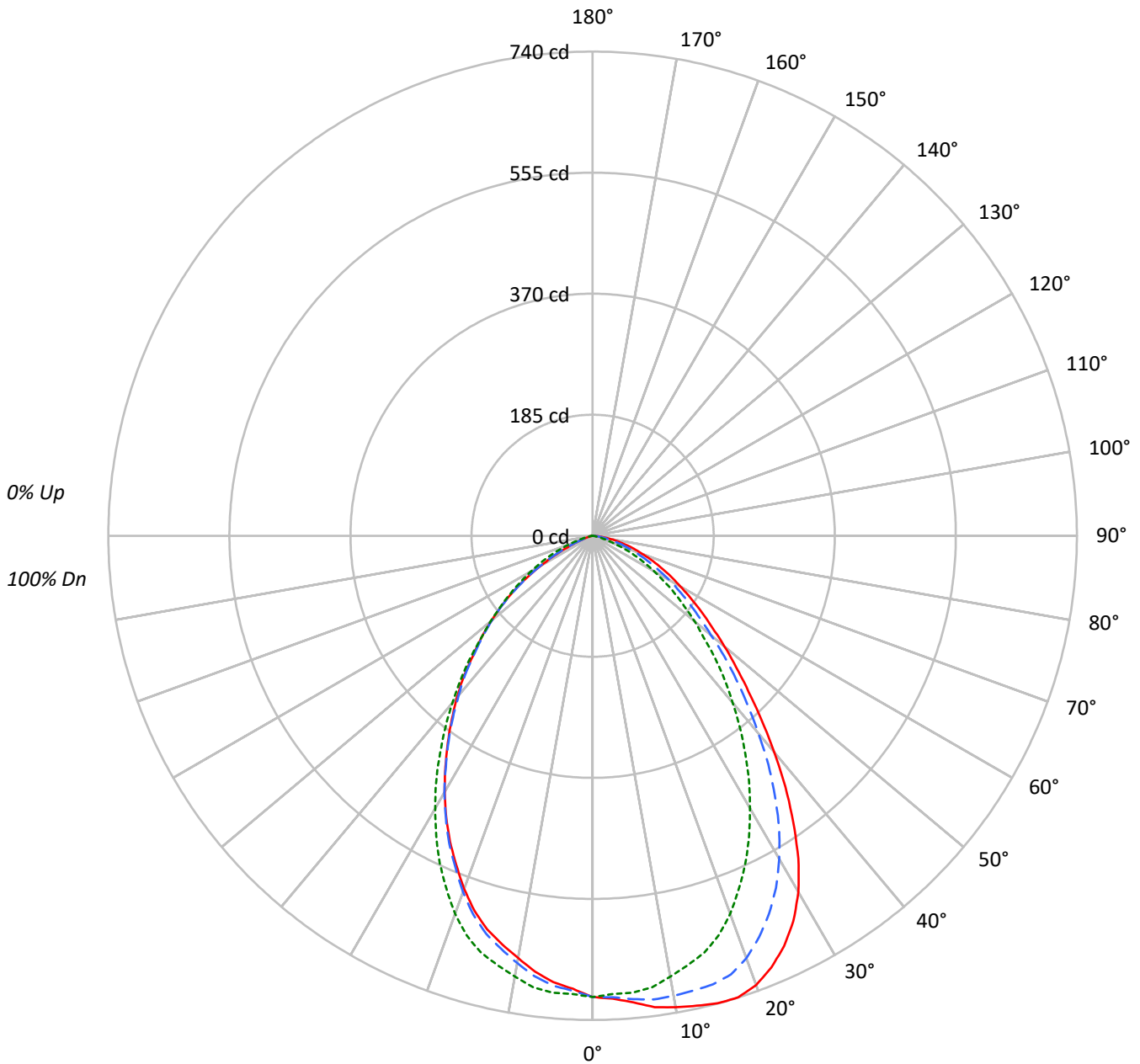
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	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°	38643	38643	38643
5°	39390	38576	37701
10°	40731	38081	36478
15°	41975	37418	35341
20°	42628	35861	33492
25°	41857	33407	31181
30°	39791	30441	28618
35°	35764	27198	25812
40°	30865	23838	23057
45°	26134	20522	19987
50°	22413	17338	17159
55°	19431	14594	14031
60°	16961	11852	10010
65°	14917	9132	5539
70°	12887	6043	2693
75°	10908	2923	1059
80°	8461	1263	600
85°	4969	629	629



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	5.3
10°-20°	188.1	15.0
20°-30°	264.9	21.1
30°-40°	270.7	21.5
40°-50°	218.2	17.4
50°-60°	146.4	11.7
60°-70°	74.1	5.9
70°-80°	23.7	1.9
80°-90°	3.6	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°	519.5	41.4
0°-40°	790.2	62.9
0°-60°	1154.8	91.9
0°-90°	1256.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1256.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	705	705	705	705	705	
5°	716	711	701	690	685	69
15°	740	710	659	630	623	209
25°	692	638	552	519	516	317
35°	534	486	406	384	386	333
45°	337	310	265	256	258	262
55°	203	180	153	146	147	183
65°	115	95	70	47	43	115
75°	52	37	14	5	5	55
85°	8	4	1	1	1	11
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°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	707.9	706.9	705.9	703.9	701.0	698.0	696.0	694.1	693.0
5°	715.8	713.8	710.9	706.9	701.0	694.1	690.1	686.1	685.1
7.5°	726.7	722.8	714.8	705.9	696.0	686.1	679.2	675.2	672.1
10°	731.7	724.7	713.8	698.9	684.1	672.1	663.3	657.3	655.3
12.5°	735.7	727.8	711.9	692.0	672.1	656.4	646.4	641.5	639.5
15°	739.6	731.7	709.8	684.1	659.3	640.5	629.6	624.6	622.7
17.5°	739.6	728.7	702.9	670.2	640.5	617.7	606.8	601.8	600.9
20°	730.7	718.8	687.0	648.4	614.7	589.0	579.0	576.0	574.1
22.5°	713.8	700.0	664.3	620.6	584.0	559.2	548.3	546.3	544.3
25°	692.0	678.2	637.5	590.9	552.3	527.4	518.6	516.5	515.5
27.5°	664.3	649.4	606.8	559.2	517.6	493.7	485.8	485.8	484.9
30°	628.6	611.8	570.1	522.4	480.9	459.0	453.1	453.1	452.1
32.5°	585.0	568.1	530.4	484.9	445.1	422.3	417.5	419.4	418.4
35°	534.4	520.5	485.8	441.2	406.4	385.7	383.7	385.7	385.7
37.5°	483.9	470.9	441.2	402.5	369.8	350.9	350.9	353.9	353.0
40°	431.3	421.3	393.6	359.9	333.1	320.2	318.3	321.2	322.2
42.5°	381.7	373.8	350.0	322.2	298.4	285.6	288.5	290.4	291.5
45°	337.1	329.2	310.3	281.6	264.7	255.8	255.8	258.8	257.8
47.5°	297.5	291.5	272.6	244.9	230.1	226.1	228.0	230.1	230.1
50°	262.8	253.8	236.0	214.2	203.3	198.3	200.3	201.2	201.2
52.5°	230.1	224.0	206.2	186.4	176.5	173.5	173.5	174.4	174.4
55°	203.3	196.4	180.5	160.6	152.7	148.7	145.7	144.7	146.8
57.5°	177.5	171.5	156.6	137.8	128.9	125.0	118.9	117.0	118.9
60°	154.7	149.7	134.8	117.0	108.1	100.1	93.2	89.2	91.3
62.5°	134.8	128.9	114.1	99.2	89.2	80.4	69.3	63.4	66.4
65°	115.0	110.1	95.2	80.4	70.4	59.5	46.6	42.7	42.7
67.5°	97.2	92.2	78.3	65.5	53.6	40.6	28.7	27.8	28.7
70°	80.4	75.4	63.4	50.5	37.7	24.7	16.8	16.8	16.8
72.5°	66.4	60.5	49.6	36.7	23.8	12.9	9.0	9.9	9.9
75°	51.5	46.6	36.7	24.7	13.8	5.9	5.0	5.0	5.0
77.5°	38.7	34.7	25.8	15.9	6.9	1.9	1.9	1.9	1.9
80°	26.8	22.8	16.8	9.9	4.0	1.9	1.9	1.9	1.9
82.5°	15.9	13.8	9.9	5.0	1.9	1.0	1.0	1.0	1.0
85°	7.9	6.9	4.0	1.9	1.0	1.0	1.0	1.0	1.0
87.5°	1.9	1.9	1.0	1.0	0.0	1.0	1.0	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)