

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: P593103

Luminaire Tested: **HC615D010-HM60525850-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593103
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-HM60525850-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1417.0 lumens
Efficiency: N/A
Efficacy: 101.2 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

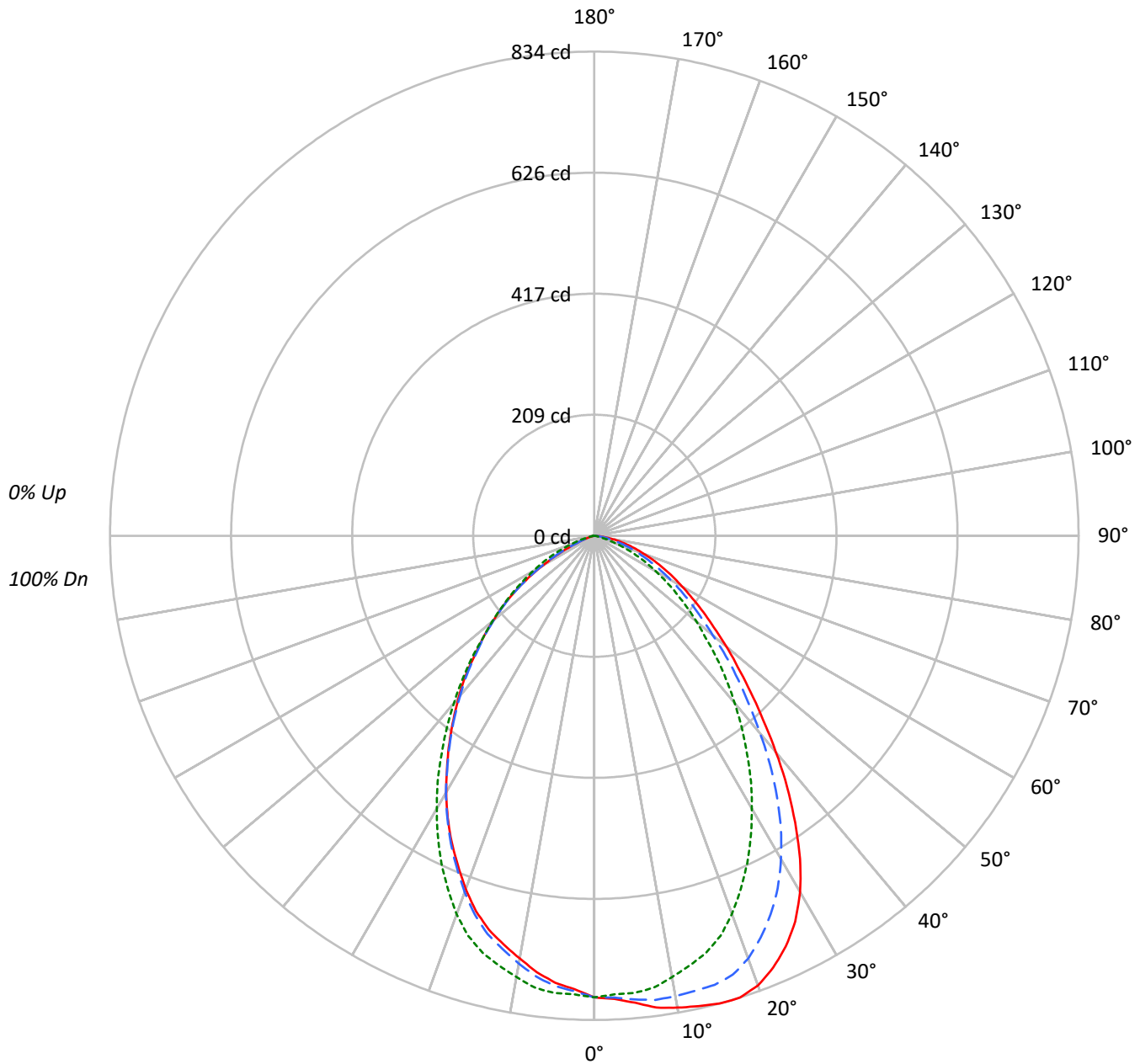
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	43588	43588	43588
5°	44431	43506	42521
10°	45941	42957	41148
15°	47344	42208	39858
20°	48083	40452	37774
25°	47210	37678	35179
30°	44880	34334	32283
35°	40341	30684	29112
40°	34815	26893	26006
45°	29476	23150	22545
50°	25270	19556	19360
55°	21916	16458	15818
60°	19121	13365	11271
65°	16824	10299	6239
70°	14522	6796	3061
75°	12306	3325	1186
80°	9534	1389	726
85°	5661	692	692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.0	5.3
10°-20°	212.2	15.0
20°-30°	298.8	21.1
30°-40°	305.3	21.5
40°-50°	246.2	17.4
50°-60°	165.1	11.7
60°-70°	83.6	5.9
70°-80°	26.7	1.9
80°-90°	4.1	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°	586.0	41.4
0°-40°	891.3	62.9
0°-60°	1302.6	91.9
0°-90°	1417.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1417.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	795	795	795	795	795	
5°	807	802	791	778	773	78
15°	834	801	744	710	702	236
25°	780	719	623	585	582	357
35°	603	548	458	433	435	375
45°	380	350	299	288	291	296
55°	229	204	172	164	166	206
65°	130	107	79	53	48	129
75°	58	41	16	6	6	62
85°	9	4	1	1	1	12
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°	795.1	795.1	795.1	795.1	795.1	795.1	795.1	795.1	795.1
2.5°	798.5	797.3	796.2	794.0	790.6	787.2	785.1	782.8	781.7
5°	807.4	805.2	801.9	797.3	790.6	782.8	778.4	773.8	772.7
7.5°	819.7	815.3	806.3	796.2	785.1	773.8	766.0	761.6	758.2
10°	825.3	817.5	805.2	788.4	771.7	758.2	748.2	741.5	739.2
12.5°	829.8	820.8	802.9	780.5	758.2	740.4	729.1	723.6	721.3
15°	834.2	825.3	800.7	771.7	743.7	722.4	710.2	704.5	702.3
17.5°	834.2	822.0	792.9	756.0	722.4	696.7	684.4	678.8	677.7
20°	824.2	810.7	775.0	731.4	693.4	664.3	653.1	649.8	647.5
22.5°	805.2	789.5	749.2	700.1	658.6	630.7	618.5	616.2	613.9
25°	780.5	764.9	719.0	666.5	622.9	595.0	584.9	582.6	581.6
27.5°	749.2	732.5	684.4	630.7	583.7	556.9	548.0	548.0	546.8
30°	709.0	690.0	643.0	589.4	542.4	517.8	511.1	511.1	510.0
32.5°	659.8	640.8	598.3	546.8	502.1	476.4	470.8	473.1	471.9
35°	602.8	587.1	548.0	497.7	458.5	435.0	432.8	435.0	435.0
37.5°	545.7	531.2	497.7	454.0	417.1	395.9	395.9	399.3	398.2
40°	486.5	475.3	444.0	406.0	375.8	361.3	359.0	362.3	363.4
42.5°	430.5	421.7	394.8	363.4	336.6	322.1	325.4	327.7	328.8
45°	380.2	371.3	350.0	317.6	298.6	288.5	288.5	291.9	290.8
47.5°	335.5	328.8	307.6	276.3	259.5	254.9	257.2	259.5	259.5
50°	296.3	286.2	266.2	241.5	229.3	223.7	225.9	227.0	227.0
52.5°	259.5	252.8	232.6	210.2	199.1	195.7	195.7	196.8	196.8
55°	229.3	221.4	203.5	181.1	172.2	167.8	164.3	163.3	165.5
57.5°	200.2	193.5	176.7	155.5	145.4	140.9	134.2	132.0	134.2
60°	174.4	168.9	152.1	132.0	121.9	112.9	105.1	100.7	102.8
62.5°	152.1	145.4	128.6	111.8	100.7	90.6	78.3	71.6	74.9
65°	129.7	124.2	107.4	90.6	79.4	67.1	52.6	48.1	48.1
67.5°	109.6	104.0	88.3	73.8	60.4	45.9	32.5	31.3	32.5
70°	90.6	85.0	71.6	57.1	42.4	27.9	19.1	19.1	19.1
72.5°	74.9	68.2	56.0	41.4	26.8	14.5	10.1	11.2	11.2
75°	58.1	52.6	41.4	27.9	15.7	6.7	5.6	5.6	5.6
77.5°	43.6	39.2	29.1	17.9	7.8	2.3	2.3	2.3	2.3
80°	30.2	25.8	19.1	11.2	4.4	2.3	2.3	2.3	2.3
82.5°	17.9	15.7	11.2	5.6	2.3	1.1	1.1	1.1	1.1
85°	9.0	7.8	4.4	2.3	1.1	1.1	1.1	1.1	1.1
87.5°	2.3	2.3	1.1	1.1	0.0	1.1	1.1	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)