

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P225543

Luminaire Tested: **14AC-LD5-35-RDP-UNV-L840-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P225543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14AC-LD5-35-RDP-UNV-L840-CD1-U
Description: METALUX Accord 1X4 LED TROFFER WITH RDP LENS
Light Source: (84)4000K CCT, 85 CRI LEDs
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2555.0 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 3.83' x H: 0')
CIE Type: Direct

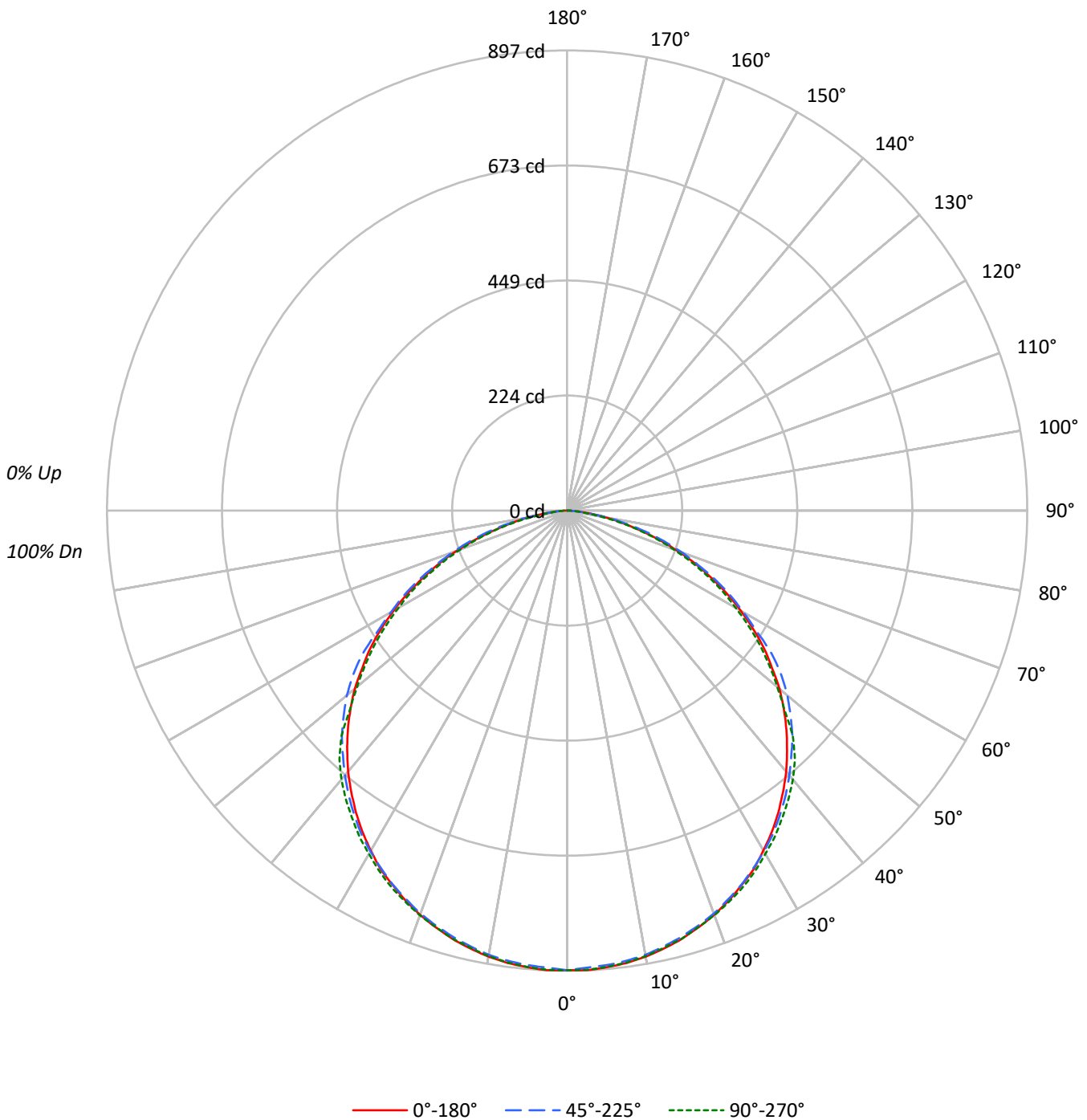
Input Watts (W): 31.48
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2516	2516	2516
5°	2519	2507	2516
10°	2517	2507	2515
15°	2513	2501	2511
20°	2506	2498	2508
25°	2495	2492	2511
30°	2481	2487	2506
35°	2461	2481	2506
40°	2436	2469	2509
45°	2401	2467	2470
50°	2361	2448	2335
55°	2295	2385	2250
60°	2198	2231	2132
65°	2058	2114	2003
70°	1874	1948	1812
75°	1563	1708	1536
80°	1239	1307	1064
85°	805	699	619



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	3.3
10°-20°	243.6	9.5
20°-30°	371.9	14.6
30°-40°	453.5	17.7
40°-50°	474.8	18.6
50°-60°	422.4	16.5
60°-70°	311.6	12.2
70°-80°	161.0	6.3
80°-90°	31.3	1.2
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°	700.4	27.4
0°-40°	1153.8	45.2
0°-60°	2051.0	80.3
0°-90°	2555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2555.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	896	896	896	896	896	
5°	894	893	889	893	893	85
15°	864	864	860	864	864	244
25°	805	805	804	810	810	371
35°	718	719	724	732	731	449
45°	605	609	621	627	622	466
55°	469	479	487	466	460	418
65°	310	331	318	307	302	307
75°	144	159	157	145	142	156
85°	25	28	22	20	19	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	896.0	896.0	896.0	896.0	896.0
2.5°	896.9	896.0	891.9	896.0	896.0
5°	893.5	892.7	889.4	892.7	892.7
7.5°	889.4	888.5	885.2	888.5	888.5
10°	882.7	881.9	879.4	882.7	881.9
12.5°	874.4	874.4	870.2	874.4	872.7
15°	864.4	863.6	860.2	863.6	863.6
17.5°	851.9	851.1	848.6	852.7	851.1
20°	838.6	837.7	836.1	840.2	839.4
22.5°	822.8	822.8	820.3	825.2	825.2
25°	805.3	805.3	804.4	810.3	810.3
27.5°	787.8	786.1	786.1	791.9	792.8
30°	765.3	765.3	767.0	773.6	772.8
32.5°	742.8	743.6	747.0	752.8	753.6
35°	717.8	718.7	723.7	732.0	731.1
37.5°	691.2	693.7	699.5	708.7	708.7
40°	664.5	666.2	673.7	683.7	684.5
42.5°	634.6	638.7	647.0	658.7	657.0
45°	604.6	608.7	621.2	627.1	622.1
47.5°	572.9	577.9	590.4	591.2	574.6
50°	540.5	546.3	560.4	543.8	534.6
52.5°	503.0	513.8	526.3	503.0	497.1
55°	468.8	478.8	487.2	466.3	459.7
57.5°	430.5	443.9	438.0	428.0	419.7
60°	391.4	405.5	397.2	387.2	379.7
62.5°	351.4	367.2	358.9	348.9	342.3
65°	309.8	331.4	318.1	307.3	301.5
67.5°	270.6	291.5	275.6	267.3	261.5
70°	228.2	245.7	237.3	226.5	220.7
72.5°	186.5	199.9	197.4	185.7	181.5
75°	144.1	159.1	157.4	144.9	141.6
77.5°	108.3	122.4	117.4	107.4	103.3
80°	76.6	85.8	80.8	69.1	65.8
82.5°	46.6	54.1	45.8	39.1	35.8
85°	25.0	27.5	21.7	20.0	19.2
87.5°	9.2	9.2	9.2	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)