

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: P225542

Luminaire Tested: **14AC-LD5-35-RDP-UNV-L835-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: P225542
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-L835-CD1-U
Description: METALUX Accord 1X4 LED TROFFER WITH RDP LENS
Light Source: (84)3500K CCT, 85 CRI LEDs
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2505.0 lumens
Efficiency: N/A
Efficacy: 79.6 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

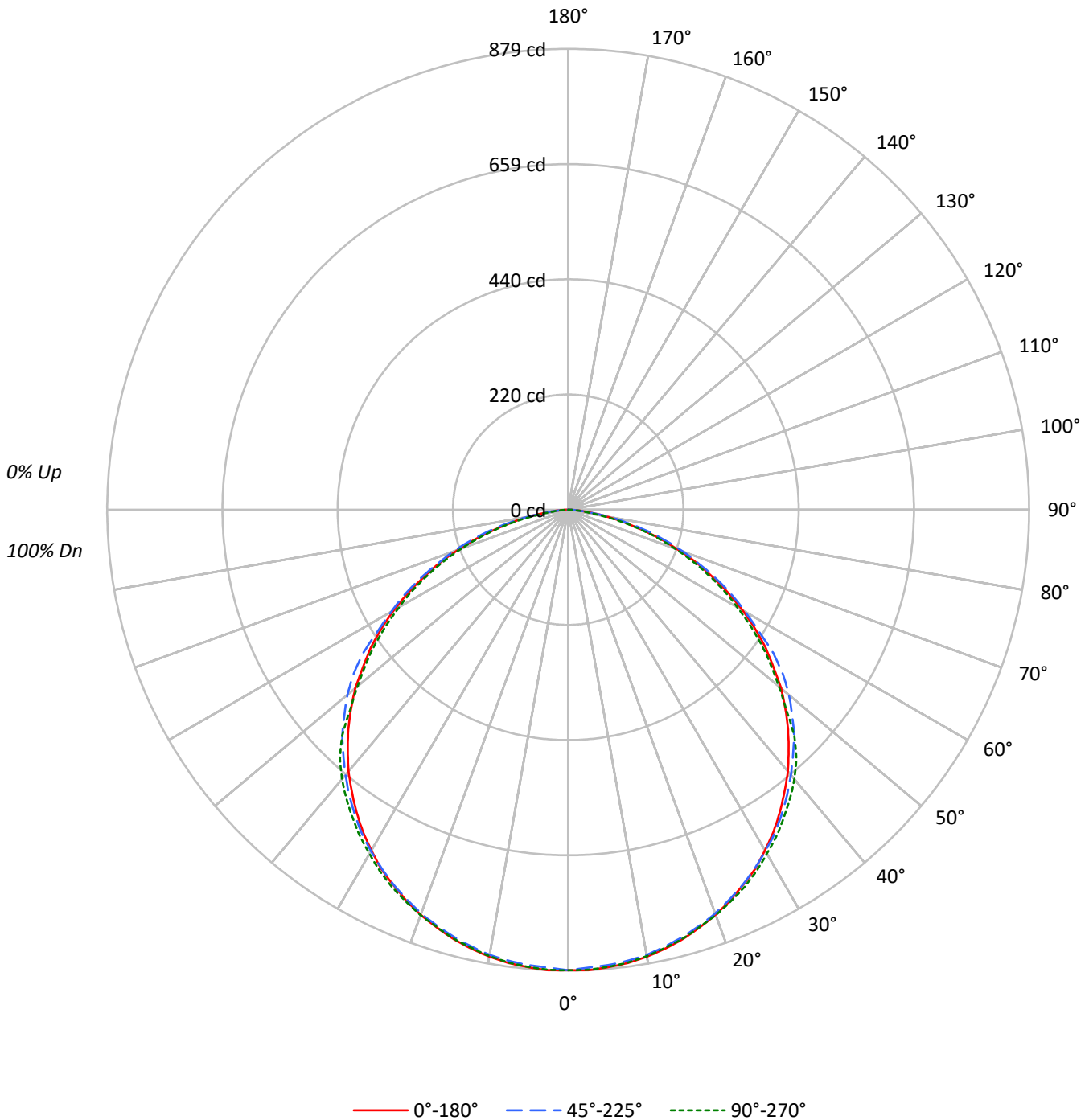
Input Watts (W): 31.48
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2467	2467	2467
5°	2469	2458	2467
10°	2468	2458	2465
15°	2464	2452	2461
20°	2457	2449	2459
25°	2446	2444	2461
30°	2433	2438	2457
35°	2413	2432	2457
40°	2388	2421	2460
45°	2354	2419	2422
50°	2315	2400	2290
55°	2250	2338	2206
60°	2155	2187	2091
65°	2018	2072	1964
70°	1837	1910	1777
75°	1532	1674	1506
80°	1214	1281	1043
85°	789	683	606



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	3.3
10°-20°	238.9	9.5
20°-30°	364.6	14.6
30°-40°	444.6	17.7
40°-50°	465.5	18.6
50°-60°	414.1	16.5
60°-70°	305.6	12.2
70°-80°	157.9	6.3
80°-90°	30.7	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°	686.7	27.4
0°-40°	1131.3	45.2
0°-60°	2010.9	80.3
0°-90°	2505.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2505.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	878	878	878	878	878	
5°	876	875	872	875	875	83
15°	848	847	843	847	847	239
25°	790	790	789	794	794	364
35°	704	705	710	718	717	440
45°	593	597	609	615	610	457
55°	460	470	478	457	451	410
65°	304	325	312	301	296	301
75°	141	156	154	142	139	153
85°	24	27	21	20	19	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	878.5	878.5	878.5	878.5	878.5
2.5°	879.3	878.5	874.4	878.5	878.5
5°	876.1	875.3	872.0	875.3	875.3
7.5°	872.0	871.2	867.9	871.2	871.2
10°	865.5	864.6	862.2	865.5	864.6
12.5°	857.3	857.3	853.2	857.3	855.7
15°	847.5	846.7	843.4	846.7	846.7
17.5°	835.2	834.4	832.0	836.1	834.4
20°	822.2	821.4	819.7	823.8	823.0
22.5°	806.7	806.7	804.2	809.1	809.1
25°	789.5	789.5	788.7	794.4	794.4
27.5°	772.4	770.7	770.7	776.5	777.3
30°	750.3	750.3	752.0	758.5	757.7
32.5°	728.3	729.1	732.4	738.1	738.9
35°	703.8	704.6	709.5	717.7	716.9
37.5°	677.7	680.1	685.8	694.8	694.8
40°	651.5	653.2	660.5	670.3	671.1
42.5°	622.1	626.2	634.4	645.8	644.2
45°	592.8	596.8	609.1	614.8	609.9
47.5°	561.7	566.6	578.9	579.7	563.4
50°	529.9	535.6	549.5	533.2	524.2
52.5°	493.1	503.8	516.0	493.1	487.4
55°	459.7	469.5	477.6	457.2	450.7
57.5°	422.1	435.2	429.5	419.7	411.5
60°	383.7	397.6	389.5	379.7	372.3
62.5°	344.5	360.1	351.9	342.1	335.6
65°	303.7	325.0	311.9	301.3	295.6
67.5°	265.4	285.8	270.3	262.1	256.4
70°	223.7	240.9	232.7	222.1	216.4
72.5°	182.9	196.0	193.5	182.1	178.0
75°	141.2	155.9	154.3	142.1	138.8
77.5°	106.1	120.0	115.1	105.3	101.2
80°	75.1	84.1	79.2	67.8	64.5
82.5°	45.7	53.1	44.9	38.4	35.1
85°	24.5	26.9	21.2	19.6	18.8
87.5°	9.0	9.0	9.0	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)