

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: P225658

Luminaire Tested: **24AC-LD5-31-RDP-UNV-L830-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: P225658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35755)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24AC-LD5-31-RDP-UNV-L830-CD1-U
Description: METALUX Accord 2X4 LED TROFFER WITH RDP LENS
Light Source: (168)3000K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2590.5 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.44
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

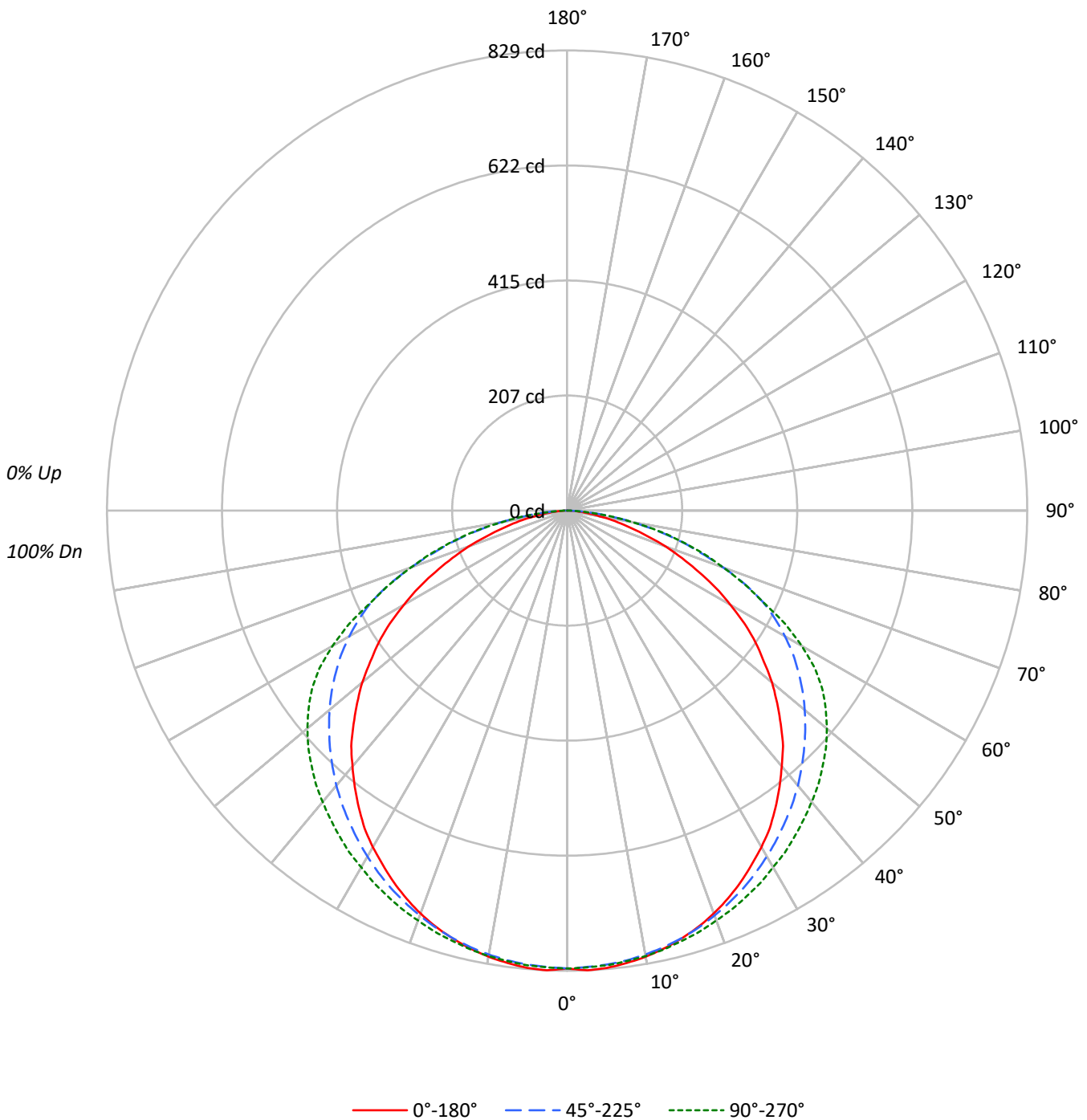
Input Watts (W): 25.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85	83
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	51	44	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	45	38	34	31
8	59	45	37	31	58	45	36	30	43	36	30	42	35	30	41	35	30	28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1110	1110	1110
5°	1117	1109	1110
10°	1115	1110	1113
15°	1111	1110	1117
20°	1106	1112	1125
25°	1097	1114	1137
30°	1088	1118	1153
35°	1074	1124	1175
40°	1056	1136	1203
45°	1035	1150	1238
50°	1009	1170	1279
55°	972	1194	1317
60°	914	1219	1313
65°	834	1238	1236
70°	741	1176	1176
75°	604	1084	1098
80°	466	936	921
85°	323	614	573



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.2	3.0
10°-20°	225.4	8.7
20°-30°	346.5	13.4
30°-40°	428.6	16.5
40°-50°	464.1	17.9
50°-60°	445.1	17.2
60°-70°	353.3	13.6
70°-80°	202.9	7.8
80°-90°	46.6	1.8
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°	650.0	25.1
0°-40°	1078.6	41.6
0°-60°	1987.8	76.7
0°-90°	2590.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2590.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	825	825	825	825	825	
5°	827	823	821	820	822	79
15°	798	796	797	799	802	225
25°	739	741	751	760	766	341
35°	654	663	684	705	716	409
45°	544	565	604	638	651	420
55°	414	451	509	548	562	369
65°	262	324	389	394	388	260
75°	116	187	209	211	211	126
85°	21	36	40	38	37	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	824.9	824.9	824.9	824.9	824.9
2.5°	829.0	824.9	822.9	821.5	823.6
5°	826.9	822.9	820.9	819.5	822.2
7.5°	822.2	818.8	817.5	816.8	818.8
10°	816.1	812.8	812.1	811.4	814.8
12.5°	808.0	805.3	805.3	805.3	809.4
15°	797.9	795.9	797.2	798.6	802.0
17.5°	786.4	784.4	787.8	790.5	795.2
20°	772.3	772.3	776.3	780.4	785.8
22.5°	756.7	758.1	764.2	770.9	777.0
25°	739.2	741.2	750.7	760.1	766.2
27.5°	719.6	723.7	735.8	748.0	755.4
30°	700.0	704.1	719.6	734.5	741.9
32.5°	679.1	683.8	702.7	720.3	730.4
35°	654.1	662.9	684.5	705.4	715.6
37.5°	628.5	640.6	666.3	689.9	700.7
40°	601.5	616.3	646.7	673.7	685.2
42.5°	575.8	591.3	625.8	656.2	669.7
45°	544.1	565.0	604.2	637.9	650.8
47.5°	513.0	538.0	581.9	617.7	632.5
50°	482.0	509.7	558.9	598.1	610.9
52.5°	446.9	480.6	534.6	573.8	587.3
55°	414.5	450.9	509.0	547.5	561.6
57.5°	378.7	419.9	482.7	520.5	529.2
60°	339.6	388.2	453.0	485.4	488.1
62.5°	302.4	357.1	422.6	442.8	443.5
65°	261.9	324.0	388.8	394.2	388.2
67.5°	224.1	288.9	347.0	342.9	345.0
70°	188.3	255.8	299.0	301.1	299.0
72.5°	149.2	221.4	251.8	256.5	257.2
75°	116.1	187.0	208.6	210.6	211.3
77.5°	88.4	149.9	162.7	166.1	168.1
80°	60.1	104.6	120.8	122.2	118.8
82.5°	39.2	67.5	77.0	77.0	76.3
85°	20.9	36.5	39.8	37.8	37.1
87.5°	7.4	10.8	12.2	12.2	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)