

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: P225667

Luminaire Tested: **24AC-LD5-31-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: P225667
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-L835-CD1-U
Description: METALUX Accord 2X4 LED TROFFER WITH RDP LENS
Light Source: (168)3500K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2693.2 lumens
Efficiency: N/A
Efficacy: 106.0 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

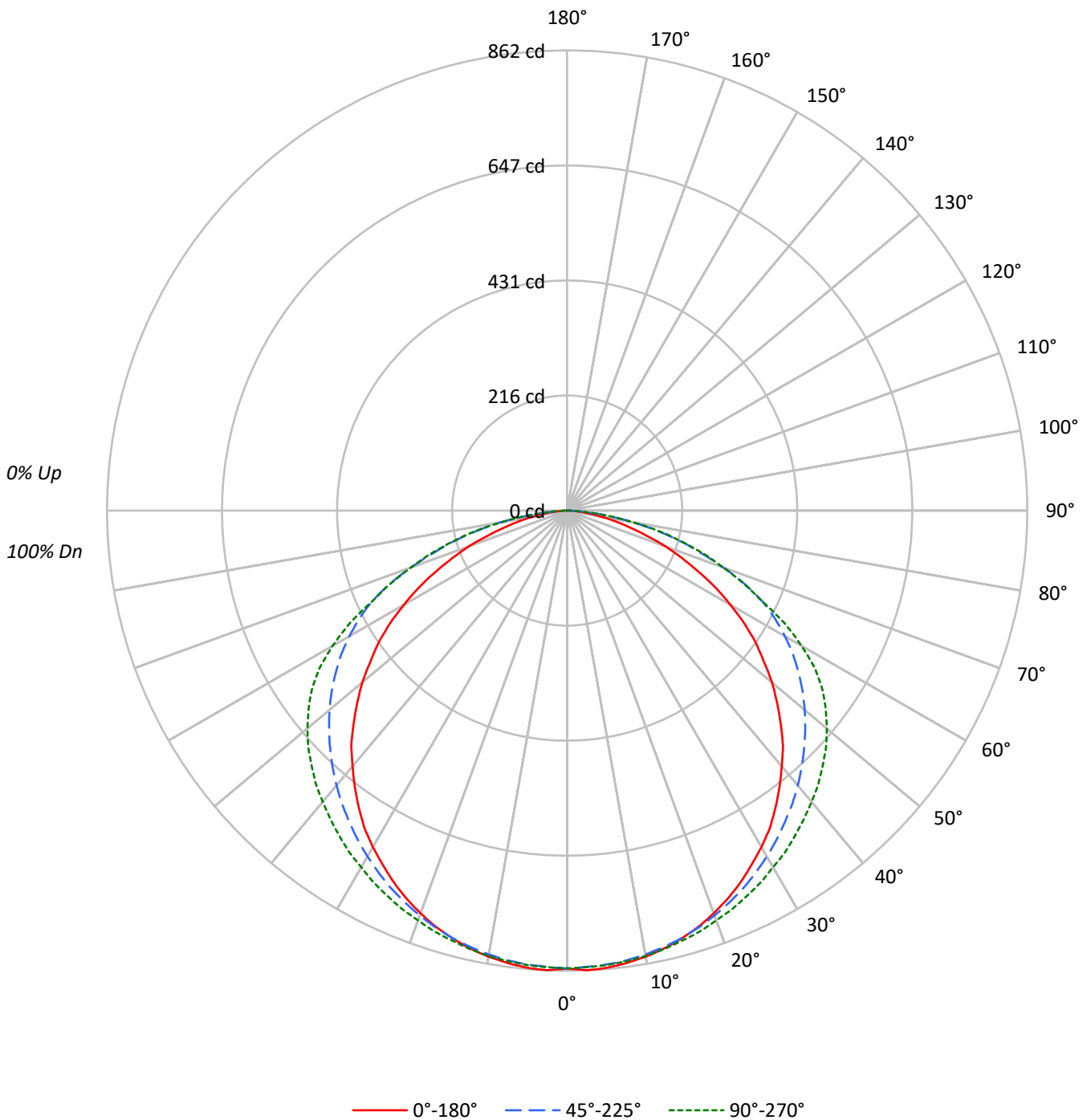
Input Watts (W): 25.41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1154	1154	1154
5°	1161	1153	1155
10°	1159	1154	1157
15°	1156	1155	1161
20°	1150	1156	1170
25°	1141	1159	1183
30°	1131	1162	1198
35°	1117	1169	1222
40°	1098	1181	1251
45°	1076	1195	1287
50°	1049	1216	1329
55°	1011	1241	1370
60°	950	1267	1365
65°	867	1287	1285
70°	770	1223	1223
75°	627	1128	1142
80°	484	973	957
85°	337	639	596



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.3	3.0
10°-20°	234.3	8.7
20°-30°	360.2	13.4
30°-40°	445.6	16.5
40°-50°	482.5	17.9
50°-60°	462.7	17.2
60°-70°	367.3	13.6
70°-80°	210.9	7.8
80°-90°	48.4	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°	675.8	25.1
0°-40°	1121.4	41.6
0°-60°	2066.6	76.7
0°-90°	2693.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2693.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	858	858	858	858	858	
5°	860	856	853	852	855	82
15°	830	827	829	830	834	234
25°	768	771	780	790	797	354
35°	680	689	712	733	744	425
45°	566	587	628	663	677	436
55°	431	469	529	569	584	384
65°	272	337	404	410	404	270
75°	121	194	217	219	220	131
85°	22	38	41	39	39	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	857.6	857.6	857.6	857.6	857.6
2.5°	861.8	857.6	855.5	854.1	856.2
5°	859.7	855.5	853.4	852.0	854.8
7.5°	854.8	851.3	849.9	849.2	851.3
10°	848.5	845.0	844.3	843.6	847.1
12.5°	840.1	837.3	837.3	837.3	841.5
15°	829.6	827.4	828.9	830.3	833.8
17.5°	817.6	815.5	819.0	821.8	826.7
20°	802.9	802.9	807.1	811.3	816.9
22.5°	786.7	788.1	794.5	801.5	807.8
25°	768.5	770.6	780.4	790.3	796.6
27.5°	748.1	752.4	765.0	777.6	785.3
30°	727.8	732.0	748.1	763.6	771.3
32.5°	706.0	710.9	730.6	748.8	759.4
35°	680.1	689.2	711.6	733.4	743.9
37.5°	653.4	666.0	692.7	717.3	728.5
40°	625.3	640.8	672.3	700.4	712.3
42.5°	598.7	614.8	650.6	682.2	696.2
45°	565.7	587.4	628.1	663.2	676.6
47.5°	533.4	559.4	605.0	642.2	657.6
50°	501.1	529.9	581.1	621.8	635.1
52.5°	464.6	499.7	555.8	596.5	610.6
55°	430.9	468.8	529.2	569.2	583.9
57.5°	393.7	436.5	501.8	541.1	550.2
60°	353.0	403.5	470.9	504.6	507.4
62.5°	314.4	371.3	439.3	460.4	461.1
65°	272.3	336.9	404.2	409.9	403.5
67.5°	233.0	300.4	360.7	356.5	358.6
70°	195.8	266.0	310.9	313.0	310.9
72.5°	155.1	230.2	261.8	266.7	267.4
75°	120.7	194.4	216.9	219.0	219.7
77.5°	91.9	155.8	169.1	172.6	174.8
80°	62.5	108.8	125.6	127.0	123.5
82.5°	40.7	70.2	80.0	80.0	79.3
85°	21.8	37.9	41.4	39.3	38.6
87.5°	7.7	11.2	12.6	12.6	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)