

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: P225624

Luminaire Tested: **22AC-LD5-44-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: P225624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35766)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22AC-LD5-44-RDP-UNV-L835-CD1-U
Description: METALUX Accord 2X2 LED TROFFER WITH RDP LENS
Light Source: (84)3500K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3470.8 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.33 / 1.42
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

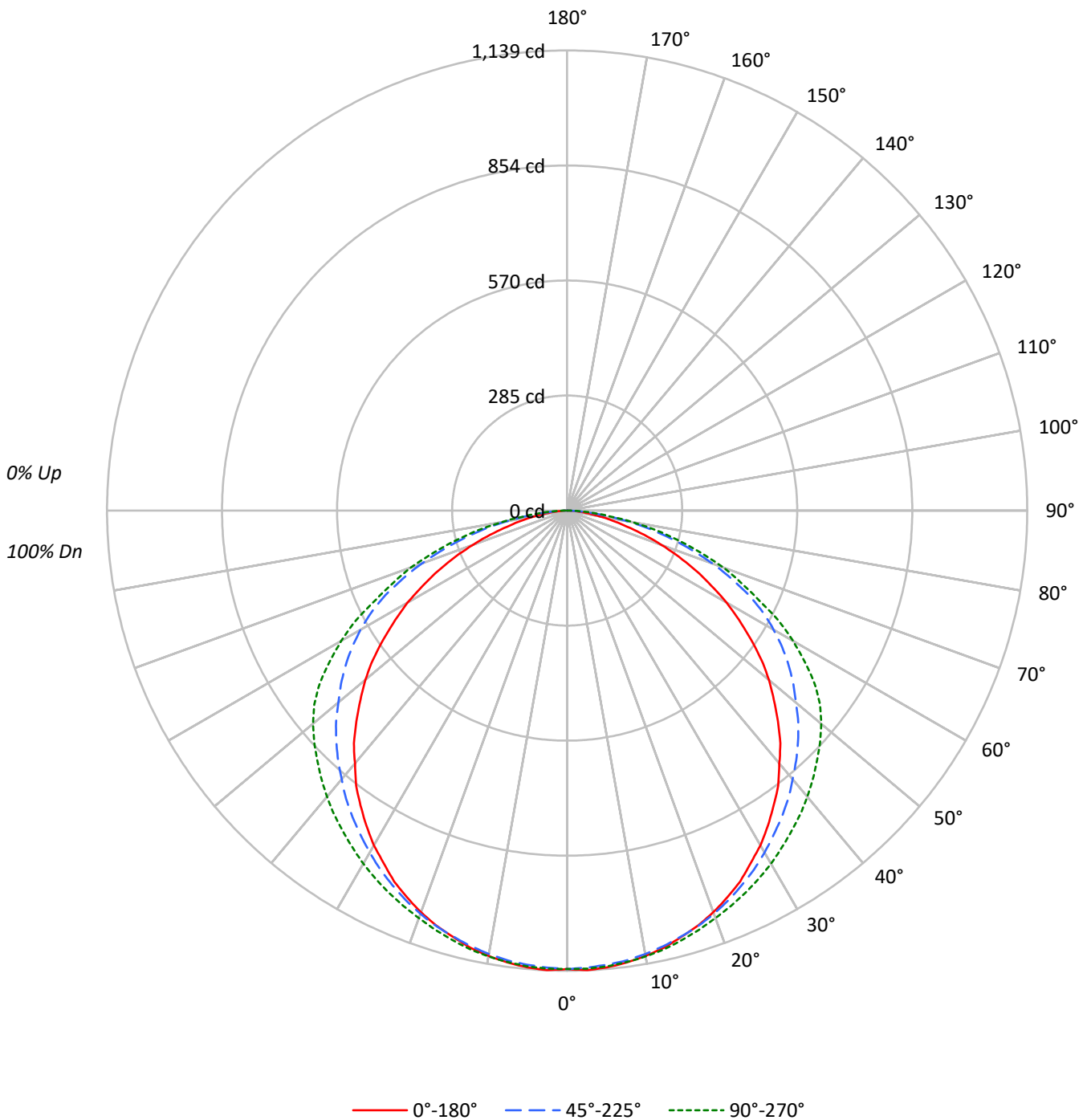
Input Watts (W): 42.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3054	3054	3054
5°	3065	3048	3058
10°	3059	3045	3062
15°	3044	3040	3065
20°	3029	3041	3074
25°	3008	3038	3099
30°	2973	3036	3136
35°	2928	3042	3181
40°	2870	3051	3248
45°	2807	3076	3329
50°	2729	3094	3437
55°	2602	3142	3509
60°	2454	3178	3474
65°	2243	3164	3328
70°	1955	3013	3234
75°	1598	2743	2969
80°	1251	2323	2540
85°	871	1544	1819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	3.1
10°-20°	309.0	8.9
20°-30°	473.0	13.6
30°-40°	581.2	16.7
40°-50°	623.3	18.0
50°-60°	590.8	17.0
60°-70°	461.8	13.3
70°-80°	262.7	7.6
80°-90°	61.5	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°	889.6	25.6
0°-40°	1470.8	42.4
0°-60°	2684.9	77.4
0°-90°	3470.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3470.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1135	1135	1135	1135	1135	
5°	1135	1132	1128	1131	1132	108
15°	1092	1091	1091	1096	1100	309
25°	1013	1016	1023	1037	1044	466
35°	891	902	926	956	968	558
45°	738	760	808	857	875	569
55°	555	603	670	730	748	496
65°	352	416	497	517	523	348
75°	154	229	264	283	286	167
85°	28	41	50	58	59	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1134.8	1134.8	1134.8	1134.8	1134.8
2.5°	1138.6	1134.8	1132.2	1133.5	1134.8
5°	1134.8	1132.2	1128.4	1130.9	1132.2
7.5°	1128.4	1125.8	1123.2	1125.8	1127.1
10°	1119.4	1116.8	1114.3	1118.1	1120.7
12.5°	1107.9	1105.3	1104.0	1109.1	1111.7
15°	1092.5	1091.2	1091.2	1096.3	1100.2
17.5°	1077.1	1075.8	1078.4	1084.8	1087.4
20°	1057.9	1057.9	1061.8	1069.4	1073.3
22.5°	1036.1	1037.4	1043.8	1054.1	1059.2
25°	1013.1	1015.7	1023.3	1037.4	1043.8
27.5°	983.6	988.8	1001.6	1018.2	1027.2
30°	956.7	961.9	977.2	999.0	1009.2
32.5°	924.7	933.7	951.6	977.2	988.8
35°	891.4	901.7	926.0	955.5	968.3
37.5°	858.1	868.4	899.1	932.4	947.8
40°	817.1	835.1	868.4	908.1	924.7
42.5°	781.3	797.9	838.9	882.5	900.4
45°	737.7	759.5	808.2	856.8	874.8
47.5°	694.2	721.1	776.1	828.7	849.2
50°	651.9	680.1	739.0	797.9	821.0
52.5°	605.8	640.4	705.7	767.2	789.0
55°	554.6	603.2	669.8	730.0	748.0
57.5°	504.6	555.9	631.4	689.1	698.0
60°	456.0	508.5	590.4	635.3	645.5
62.5°	402.2	462.4	546.9	582.8	590.4
65°	352.2	416.3	496.9	517.4	522.6
67.5°	299.7	367.6	439.3	459.8	464.9
70°	248.5	321.5	383.0	400.9	411.1
72.5°	199.8	274.1	321.5	340.7	345.8
75°	153.7	229.3	263.8	283.1	285.6
77.5°	116.6	179.3	208.8	224.1	226.7
80°	80.7	124.2	149.9	161.4	163.9
82.5°	51.2	79.4	96.1	105.0	105.0
85°	28.2	41.0	50.0	57.6	58.9
87.5°	10.2	12.8	16.7	25.6	28.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)