

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: P225630

Luminaire Tested: **22AC-LD5-44-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: P225630
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-L840-CD1-U
Description: METALUX Accord 2X2 LED TROFFER WITH RDP LENS
Light Source: (84)4000K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3540.2 lumens
Efficiency: N/A
Efficacy: 83.7 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

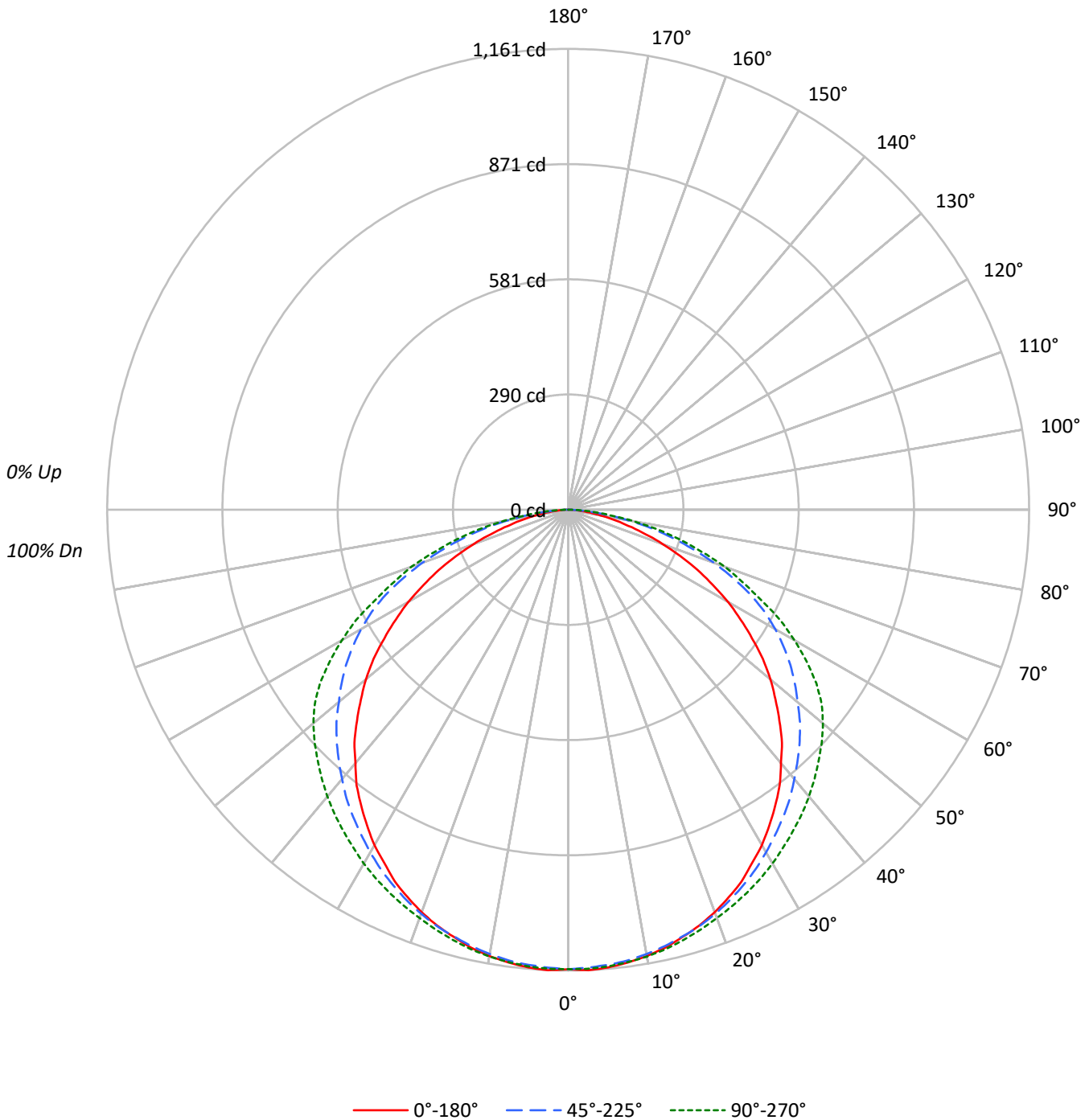
Input Watts (W): 42.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69					69			
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57					57			
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49					49			
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42					42			
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36					36			
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32					32			
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28					28			
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25					25			
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3115	3115	3115
5°	3127	3109	3119
10°	3120	3106	3124
15°	3104	3101	3126
20°	3090	3101	3135
25°	3068	3099	3161
30°	3032	3097	3199
35°	2987	3103	3244
40°	2928	3111	3313
45°	2864	3137	3396
50°	2784	3156	3506
55°	2654	3205	3579
60°	2503	3241	3543
65°	2288	3228	3394
70°	1994	3073	3300
75°	1630	2798	3029
80°	1275	2368	2591
85°	886	1572	1856



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.7	3.1
10°-20°	315.2	8.9
20°-30°	482.5	13.6
30°-40°	592.8	16.7
40°-50°	635.8	18.0
50°-60°	602.6	17.0
60°-70°	471.0	13.3
70°-80°	267.9	7.6
80°-90°	62.7	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°	907.4	25.6
0°-40°	1500.2	42.4
0°-60°	2738.6	77.4
0°-90°	3540.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3540.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1158	1158	1158	1158	1158	
5°	1158	1155	1151	1154	1155	110
15°	1114	1113	1113	1118	1122	315
25°	1033	1036	1044	1058	1065	475
35°	909	920	944	975	988	569
45°	752	775	824	874	892	580
55°	566	615	683	745	763	506
65°	359	425	507	528	533	355
75°	157	234	269	289	291	171
85°	29	42	51	59	60	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1157.5	1157.5	1157.5	1157.5	1157.5
2.5°	1161.4	1157.5	1154.8	1156.2	1157.5
5°	1157.5	1154.8	1150.9	1153.5	1154.8
7.5°	1150.9	1148.3	1145.7	1148.3	1149.6
10°	1141.8	1139.2	1136.6	1140.5	1143.1
12.5°	1130.0	1127.4	1126.1	1131.3	1133.9
15°	1114.3	1113.0	1113.0	1118.3	1122.2
17.5°	1098.7	1097.4	1100.0	1106.5	1109.1
20°	1079.1	1079.1	1083.0	1090.8	1094.8
22.5°	1056.9	1058.2	1064.7	1075.2	1080.4
25°	1033.4	1036.0	1043.8	1058.2	1064.7
27.5°	1003.3	1008.5	1021.6	1038.6	1047.7
30°	975.9	981.1	996.8	1019.0	1029.4
32.5°	943.2	952.4	970.6	996.8	1008.5
35°	909.2	919.7	944.5	974.6	987.6
37.5°	875.3	885.7	917.1	951.1	966.7
40°	833.5	851.8	885.7	926.2	943.2
42.5°	796.9	813.9	855.7	900.1	918.4
45°	752.5	774.7	824.3	874.0	892.3
47.5°	708.1	735.5	791.7	845.2	866.1
50°	665.0	693.7	753.8	813.9	837.4
52.5°	617.9	653.2	719.8	782.5	804.7
55°	565.7	615.3	683.2	744.6	762.9
57.5°	514.7	567.0	644.0	702.8	712.0
60°	465.1	518.6	602.2	648.0	658.4
62.5°	410.2	471.6	557.8	594.4	602.2
65°	359.3	424.6	506.9	527.8	533.0
67.5°	305.7	374.9	448.1	469.0	474.2
70°	253.4	327.9	390.6	408.9	419.4
72.5°	203.8	279.6	327.9	347.5	352.7
75°	156.8	233.8	269.1	288.7	291.3
77.5°	118.9	182.9	212.9	228.6	231.2
80°	82.3	126.7	152.8	164.6	167.2
82.5°	52.3	81.0	98.0	107.1	107.1
85°	28.7	41.8	50.9	58.8	60.1
87.5°	10.5	13.1	17.0	26.1	28.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)