

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: P238735

Luminaire Tested: **14ENA-LD2-38-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238735
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-395-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14ENA-LD2-38-UNV-L940-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2972.8 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 0.67' x L: 3.83' x H: 0')
CIE Type: Direct

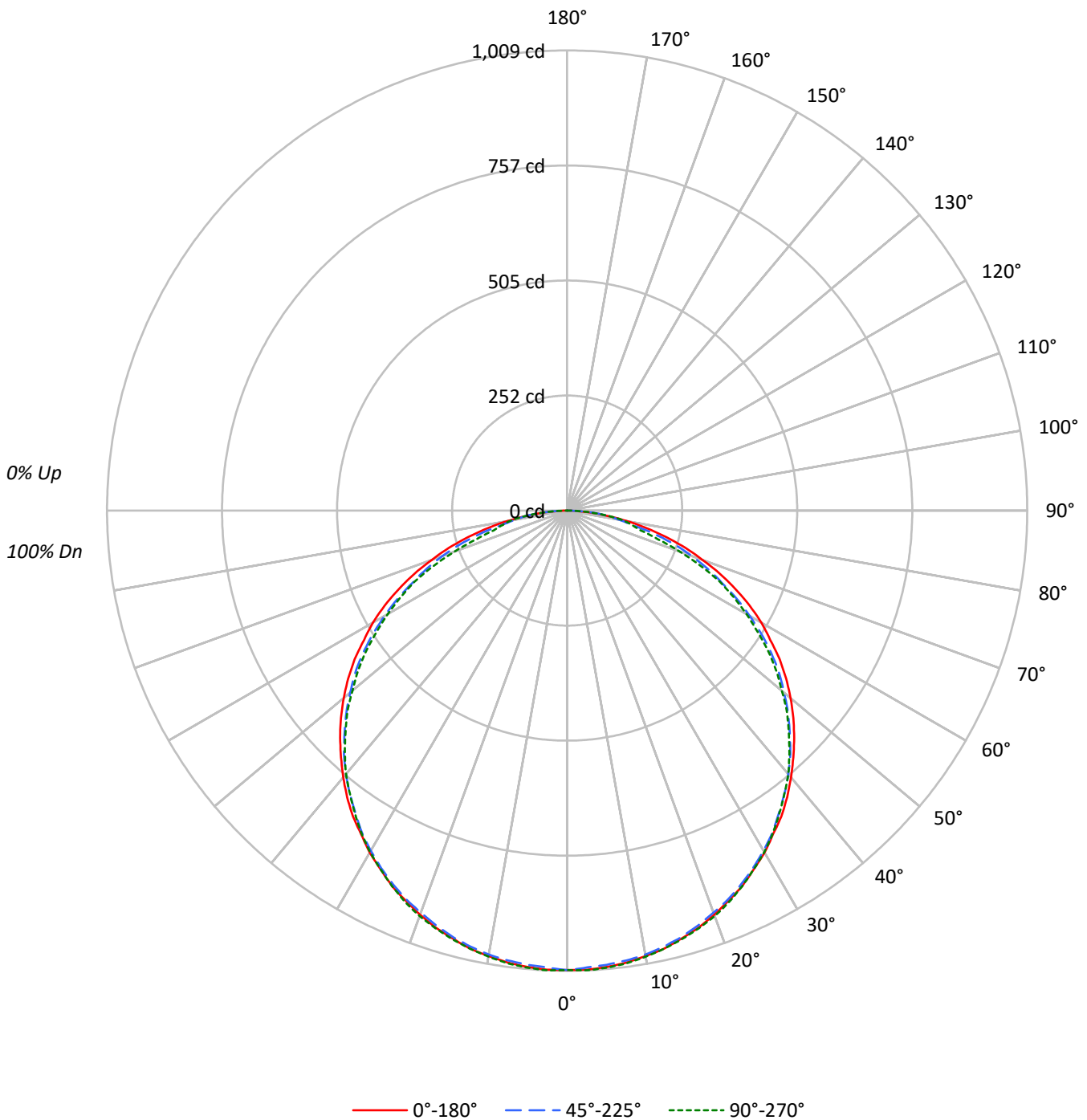
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4244	4244	4244
5°	4246	4226	4253
10°	4242	4228	4248
15°	4235	4222	4242
20°	4227	4206	4241
25°	4222	4200	4222
30°	4212	4189	4205
35°	4211	4162	4170
40°	4200	4148	4148
45°	4194	4110	4092
50°	4192	4068	4027
55°	4178	4017	3959
60°	4145	3893	3826
65°	4057	3728	3682
70°	3890	3581	3233
75°	3658	3222	2711
80°	3241	2782	3049
85°	2508	2885	2735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	3.2
10°-20°	274.0	9.2
20°-30°	417.7	14.0
30°-40°	508.6	17.1
40°-50°	534.8	18.0
50°-60°	490.9	16.5
60°-70°	377.1	12.7
70°-80°	210.5	7.1
80°-90°	63.9	2.1
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°	787.1	26.5
0°-40°	1295.6	43.6
0°-60°	2321.3	78.1
0°-90°	2972.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2972.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1008	1008	1008	1008	1008	
5°	1004	1004	1000	1004	1006	95
15°	971	971	968	971	973	274
25°	908	905	904	907	908	418
35°	819	816	810	811	811	512
45°	704	699	690	687	687	543
55°	569	564	547	538	539	507
65°	407	396	374	369	369	402
75°	225	214	198	171	167	237
85°	52	53	60	58	57	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1007.5	1007.5	1007.5	1007.5	1007.5
2.5°	1007.5	1007.5	1002.8	1007.5	1009.1
5°	1004.3	1004.3	999.6	1004.3	1005.9
7.5°	999.6	999.6	994.9	998.1	1001.2
10°	991.8	991.8	988.6	991.8	993.3
12.5°	983.9	982.3	979.2	982.3	983.9
15°	971.3	971.3	968.2	971.3	972.9
17.5°	958.8	957.2	954.1	958.8	960.3
20°	943.0	941.5	938.3	943.0	946.2
22.5°	925.8	924.2	922.6	927.3	928.9
25°	908.5	905.3	903.8	906.9	908.5
27.5°	886.5	884.9	883.3	884.9	886.5
30°	866.0	862.9	861.3	861.3	864.5
32.5°	840.9	839.3	837.7	839.3	839.3
35°	818.9	815.7	809.5	811.0	811.0
37.5°	792.2	787.4	782.7	782.7	782.7
40°	763.9	760.7	754.4	752.9	754.4
42.5°	734.0	730.9	724.6	719.9	721.4
45°	704.1	699.4	690.0	686.9	686.9
47.5°	672.7	668.0	657.0	652.3	653.8
50°	639.7	633.4	620.8	614.6	614.6
52.5°	605.1	598.8	586.3	578.4	578.4
55°	569.0	564.3	547.0	537.5	539.1
57.5°	528.1	523.4	506.1	495.1	495.1
60°	492.0	482.5	462.1	454.2	454.2
62.5°	451.1	440.1	419.7	410.2	411.8
65°	407.1	396.1	374.1	369.4	369.4
67.5°	363.1	353.6	333.2	325.4	317.5
70°	315.9	306.5	290.8	271.9	262.5
72.5°	271.9	260.9	246.8	218.5	209.0
75°	224.8	213.8	198.0	171.3	166.6
77.5°	179.2	169.7	147.7	141.5	144.6
80°	133.6	130.5	114.7	121.0	125.7
82.5°	89.6	88.0	91.2	94.3	94.3
85°	51.9	53.4	59.7	58.2	56.6
87.5°	22.0	26.7	25.1	25.1	25.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)