

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: P238762

Luminaire Tested: **14EN-LD2-33-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238762
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: 14EN-LD2-33-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
STANDARD OPTION
Light Source: (224)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3329.0 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 1' x L: 3.83' x H: 0')
CIE Type: Direct

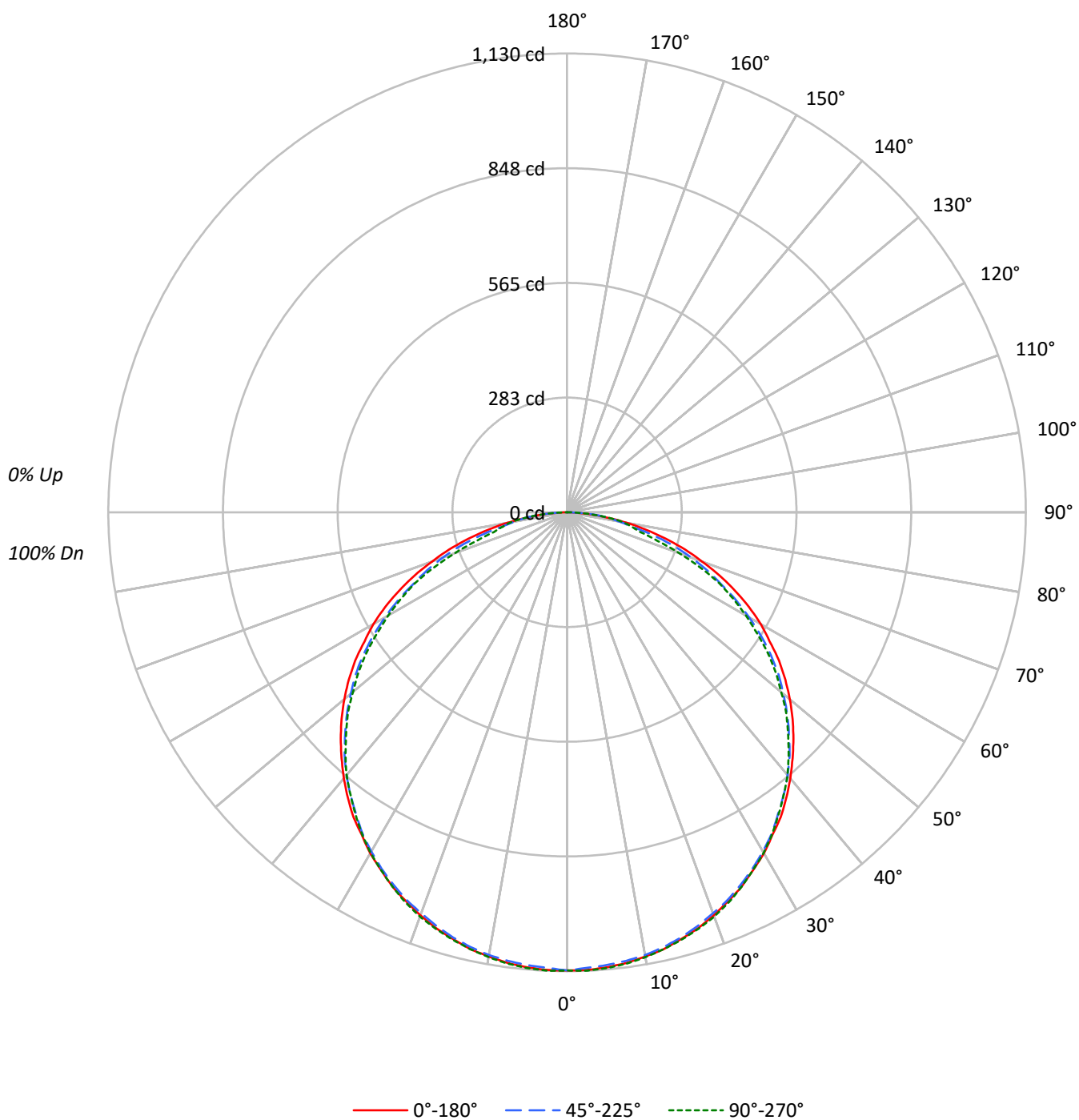
Input Watts (W): 28.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	109	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		72	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		42
6	69	56	47	40	68	55	46	40	53	46	40		51	45	39		37
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		33
8	60	46	38	32	58	45	37	32	44	37	31		43	36	31		29
9	56	42	34	28	54	42	34	28	41	33	28		40	33	28		26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3168	3168	3168
5°	3170	3155	3175
10°	3167	3157	3172
15°	3162	3152	3167
20°	3156	3140	3166
25°	3152	3135	3152
30°	3144	3127	3139
35°	3143	3107	3113
40°	3136	3097	3097
45°	3131	3068	3055
50°	3130	3037	3006
55°	3119	2999	2955
60°	3094	2906	2857
65°	3029	2783	2748
70°	2905	2673	2413
75°	2731	2406	2024
80°	2419	2078	2277
85°	1872	2155	2043



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	3.2
10°-20°	306.8	9.2
20°-30°	467.7	14.0
30°-40°	569.5	17.1
40°-50°	598.8	18.0
50°-60°	549.7	16.5
60°-70°	422.3	12.7
70°-80°	235.7	7.1
80°-90°	71.6	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°	881.4	26.5
0°-40°	1450.9	43.6
0°-60°	2599.4	78.1
0°-90°	3329.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3329.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1128	1128	1128	1128	1128	
5°	1125	1125	1119	1125	1126	107
15°	1088	1088	1084	1088	1090	307
25°	1017	1014	1012	1016	1017	469
35°	917	914	906	908	908	573
45°	788	783	773	769	769	608
55°	637	632	612	602	604	568
65°	456	444	419	414	414	450
75°	252	239	222	192	187	266
85°	58	60	67	65	63	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1128.2	1128.2	1128.2	1128.2	1128.2
2.5°	1128.2	1128.2	1122.9	1128.2	1130.0
5°	1124.7	1124.7	1119.4	1124.7	1126.5
7.5°	1119.4	1119.4	1114.1	1117.7	1121.2
10°	1110.6	1110.6	1107.1	1110.6	1112.4
12.5°	1101.8	1100.1	1096.5	1100.1	1101.8
15°	1087.7	1087.7	1084.2	1087.7	1089.5
17.5°	1073.6	1071.9	1068.4	1073.6	1075.4
20°	1056.0	1054.3	1050.8	1056.0	1059.6
22.5°	1036.7	1034.9	1033.2	1038.4	1040.2
25°	1017.3	1013.8	1012.0	1015.6	1017.3
27.5°	992.7	990.9	989.2	990.9	992.7
30°	969.8	966.3	964.5	964.5	968.0
32.5°	941.6	939.9	938.1	939.9	939.9
35°	917.0	913.5	906.4	908.2	908.2
37.5°	887.1	881.8	876.5	876.5	876.5
40°	855.4	851.9	844.8	843.1	844.8
42.5°	822.0	818.4	811.4	806.1	807.9
45°	788.5	783.2	772.7	769.2	769.2
47.5°	753.3	748.0	735.7	730.4	732.2
50°	716.4	709.3	695.2	688.2	688.2
52.5°	677.6	670.6	656.5	647.7	647.7
55°	637.1	631.9	612.5	601.9	603.7
57.5°	591.4	586.1	566.7	554.4	554.4
60°	550.9	540.3	517.5	508.7	508.7
62.5°	505.1	492.8	469.9	459.4	461.1
65°	455.9	443.5	418.9	413.6	413.6
67.5°	406.6	396.0	373.1	364.3	355.5
70°	353.8	343.2	325.6	304.5	293.9
72.5°	304.5	292.2	276.3	244.7	234.1
75°	251.7	239.4	221.8	191.8	186.6
77.5°	200.6	190.1	165.4	158.4	161.9
80°	149.6	146.1	128.5	135.5	140.8
82.5°	100.3	98.6	102.1	105.6	105.6
85°	58.1	59.8	66.9	65.1	63.4
87.5°	24.6	29.9	28.2	28.2	28.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)