

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: P238724

Luminaire Tested: **14ENA-LD2-25-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238724
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-LD2-25-UNV-L950-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2058.1 lumens
Efficiency: N/A
Efficacy: 98.5 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

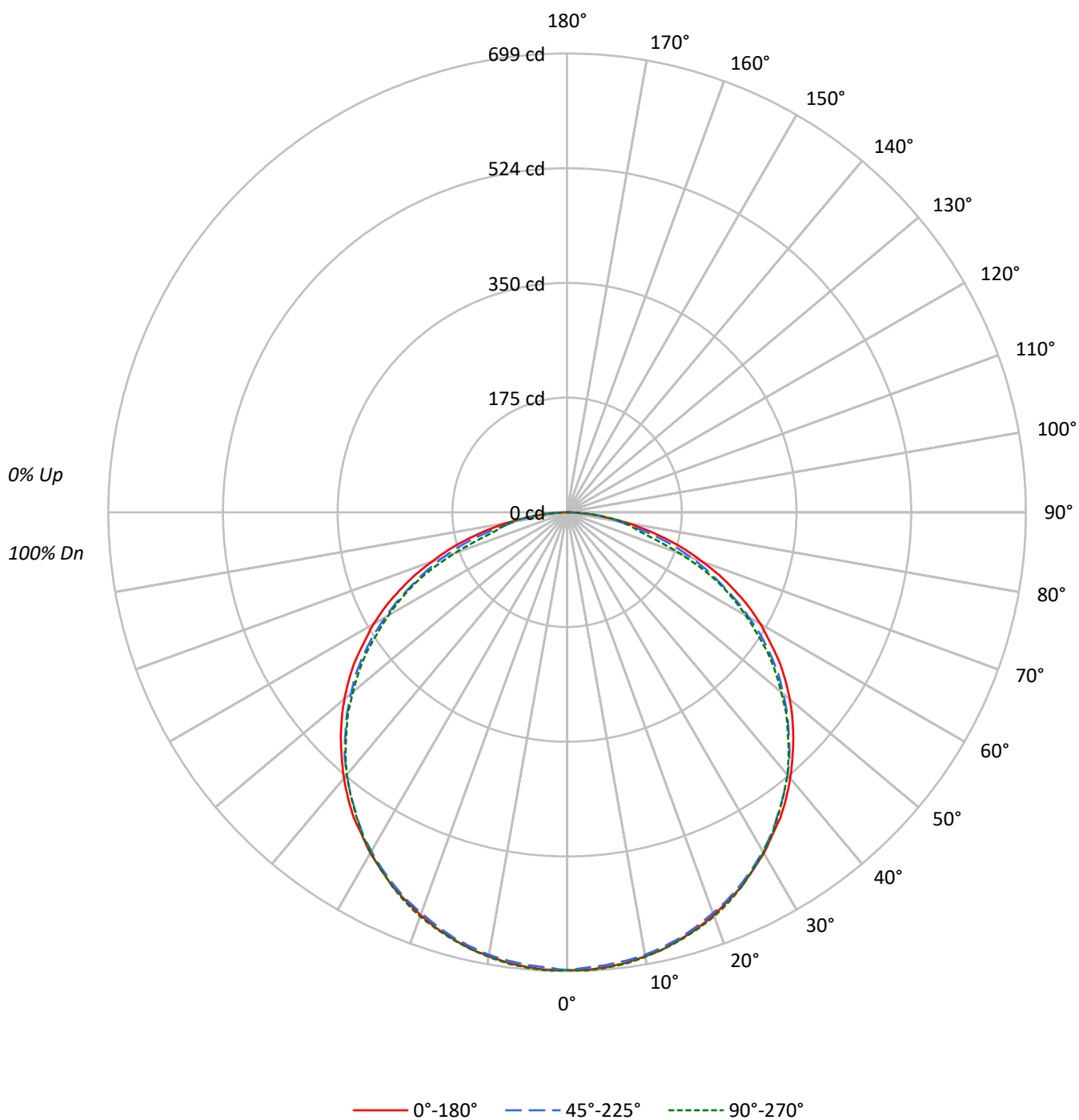
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	109	104	99	95	106	101	97	94		97	94	91			93	90	88			90
2	99	90	83	77	96	88	82	76		85	79	75			81	77	73			78
3	90	79	71	64	87	77	70	63		74	68	62			72	66	61			69
4	82	70	61	54	80	68	60	54		66	59	53			64	57	52			61
5	75	62	53	46	73	61	53	46		59	51	46			57	50	45			55
6	69	56	47	40	68	55	46	40		53	46	40			51	45	39			50
7	64	51	42	36	63	50	41	35		48	41	35			47	40	35			45
8	60	46	38	32	58	45	37	32		44	37	31			43	36	31			42
9	56	42	34	28	54	42	34	28		41	33	28			40	33	28			38
10	52	39	31	26	51	39	31	26		38	30	26			37	30	25			36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2938	2938	2938
5°	2940	2926	2944
10°	2937	2928	2941
15°	2932	2923	2937
20°	2926	2912	2936
25°	2923	2908	2923
30°	2916	2900	2911
35°	2915	2882	2887
40°	2908	2872	2872
45°	2904	2845	2832
50°	2902	2816	2788
55°	2893	2781	2741
60°	2869	2695	2649
65°	2809	2581	2548
70°	2693	2479	2238
75°	2532	2231	1876
80°	2244	1926	2113
85°	1735	2001	1894



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	3.2
10°-20°	189.7	9.2
20°-30°	289.2	14.0
30°-40°	352.1	17.1
40°-50°	370.2	18.0
50°-60°	339.8	16.5
60°-70°	261.1	12.7
70°-80°	145.7	7.1
80°-90°	44.2	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°	544.9	26.5
0°-40°	897.0	43.6
0°-60°	1607.1	78.1
0°-90°	2058.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2058.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	698	698	698	698	698	
5°	695	695	692	695	696	66
15°	672	672	670	672	674	190
25°	629	627	626	628	629	290
35°	567	565	560	562	562	354
45°	488	484	478	476	476	376
55°	394	391	379	372	373	351
65°	282	274	259	256	256	278
75°	156	148	137	119	115	164
85°	36	37	41	40	39	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	697.5	697.5	697.5	697.5	697.5
2.5°	697.5	697.5	694.2	697.5	698.6
5°	695.3	695.3	692.1	695.3	696.4
7.5°	692.1	692.1	688.8	691.0	693.2
10°	686.6	686.6	684.5	686.6	687.7
12.5°	681.2	680.1	677.9	680.1	681.2
15°	672.5	672.5	670.3	672.5	673.6
17.5°	663.8	662.7	660.5	663.8	664.9
20°	652.9	651.8	649.6	652.9	655.1
22.5°	640.9	639.8	638.8	642.0	643.1
25°	629.0	626.8	625.7	627.9	629.0
27.5°	613.7	612.6	611.5	612.6	613.7
30°	599.6	597.4	596.3	596.3	598.5
32.5°	582.2	581.1	580.0	581.1	581.1
35°	566.9	564.8	560.4	561.5	561.5
37.5°	548.4	545.2	541.9	541.9	541.9
40°	528.8	526.7	522.3	521.2	522.3
42.5°	508.2	506.0	501.6	498.4	499.5
45°	487.5	484.2	477.7	475.5	475.5
47.5°	465.7	462.5	454.9	451.6	452.7
50°	442.9	438.5	429.8	425.5	425.5
52.5°	418.9	414.6	405.9	400.4	400.4
55°	393.9	390.6	378.7	372.2	373.2
57.5°	365.6	362.4	350.4	342.8	342.8
60°	340.6	334.1	319.9	314.5	314.5
62.5°	312.3	304.7	290.5	284.0	285.1
65°	281.8	274.2	259.0	255.7	255.7
67.5°	251.4	244.8	230.7	225.2	219.8
70°	218.7	212.2	201.3	188.3	181.7
72.5°	188.3	180.6	170.8	151.3	144.7
75°	155.6	148.0	137.1	118.6	115.3
77.5°	124.1	117.5	102.3	97.9	100.1
80°	92.5	90.3	79.4	83.8	87.1
82.5°	62.0	60.9	63.1	65.3	65.3
85°	35.9	37.0	41.4	40.3	39.2
87.5°	15.2	18.5	17.4	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)