

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: P238860

Luminaire Tested: **22ENA-LD2-25-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-118-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22ENA-LD2-25-UNV-L950-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
AIR-VENTED OPTION
Light Source: (168)5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2464.9 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 1.83' x H: 0')
CIE Type: Direct

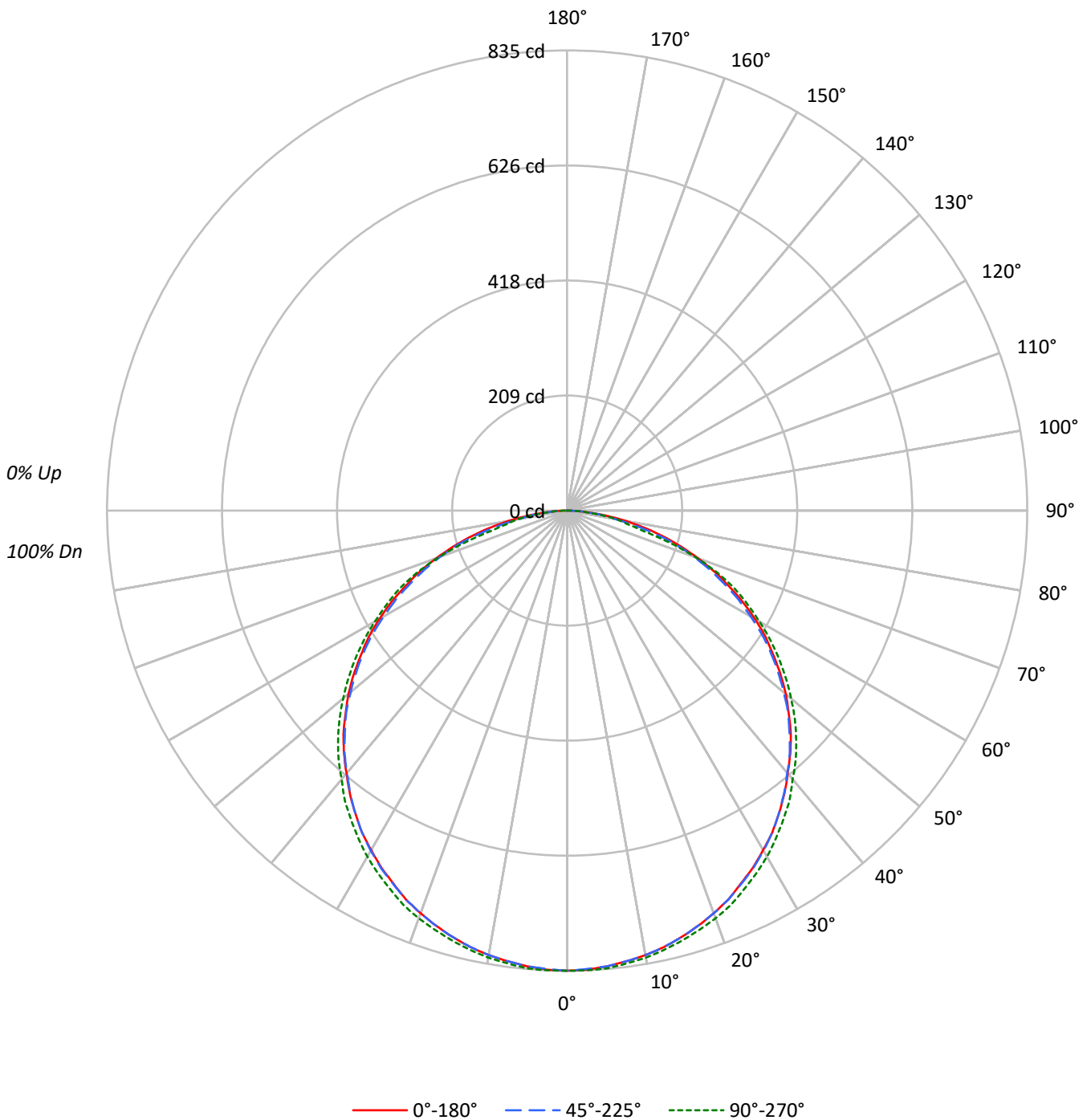
Input Watts (W): 20
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	97	94	91	93	91	88	90	88	86	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	39	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°	2941	2941	2941
5°	2935	2935	2948
10°	2929	2929	2947
15°	2922	2922	2945
20°	2915	2915	2953
25°	2901	2906	2950
30°	2894	2899	2950
35°	2883	2883	2942
40°	2864	2858	2927
45°	2860	2842	2929
50°	2839	2811	2907
55°	2806	2775	2882
60°	2770	2708	2840
65°	2695	2622	2798
70°	2597	2519	2558
75°	2446	2293	1953
80°	2152	1797	1874
85°	1564	1512	1463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.0	3.2
10°-20°	226.7	9.2
20°-30°	346.0	14.0
30°-40°	421.5	17.1
40°-50°	443.6	18.0
50°-60°	408.4	16.6
60°-70°	317.9	12.9
70°-80°	176.4	7.2
80°-90°	45.3	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°	651.7	26.4
0°-40°	1073.1	43.5
0°-60°	1925.2	78.1
0°-90°	2464.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2464.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	835	835	835	835	835	
5°	830	830	830	832	834	79
15°	801	801	801	805	808	226
25°	746	748	748	754	759	345
35°	670	670	670	678	684	419
45°	574	570	570	579	588	442
55°	457	456	452	459	469	409
65°	323	320	314	324	336	320
75°	180	176	168	150	144	189
85°	39	36	37	36	36	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	835.0	835.0	835.0	835.0	835.0
2.5°	833.8	832.5	832.5	835.0	835.0
5°	830.0	830.0	830.0	832.5	833.8
7.5°	825.0	825.0	825.0	828.8	828.8
10°	818.8	817.5	818.8	821.3	823.8
12.5°	811.3	810.0	811.3	813.8	816.3
15°	801.3	801.3	801.3	805.0	807.5
17.5°	790.1	788.8	790.1	793.8	797.6
20°	777.6	777.6	777.6	782.6	787.6
22.5°	763.9	762.6	763.9	770.1	775.1
25°	746.4	747.6	747.6	753.9	758.9
27.5°	730.2	728.9	731.4	736.4	742.6
30°	711.4	711.4	712.7	718.9	725.2
32.5°	692.7	691.5	692.7	699.0	705.2
35°	670.3	670.3	670.3	677.7	684.0
37.5°	647.8	646.5	646.5	654.0	662.8
40°	622.8	621.6	621.6	630.3	636.6
42.5°	599.1	597.9	597.9	605.3	614.1
45°	574.1	570.4	570.4	579.1	587.9
47.5°	545.4	542.9	544.2	551.7	560.4
50°	518.0	514.2	513.0	521.7	530.5
52.5°	488.0	486.8	483.0	490.5	500.5
55°	456.8	455.6	451.8	459.3	469.3
57.5°	426.9	423.1	419.4	425.6	436.8
60°	393.2	389.4	384.4	393.2	403.1
62.5°	359.5	354.5	350.7	358.2	369.4
65°	323.3	319.5	314.5	324.5	335.7
67.5°	289.6	285.8	279.6	288.3	295.8
70°	252.1	247.1	244.6	245.9	248.4
72.5°	215.9	213.4	209.7	199.7	197.2
75°	179.7	176.0	168.5	149.8	143.5
77.5°	143.5	141.0	127.3	111.1	111.1
80°	106.1	104.8	88.6	91.1	92.4
82.5°	72.4	69.9	64.9	63.7	63.7
85°	38.7	36.2	37.4	36.2	36.2
87.5°	15.0	15.0	16.2	15.0	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)