

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: P238811

Luminaire Tested: **22ENA-LD2-25-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238811
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-L840-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
AIR-VENTED OPTION
Light Source: (168)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2633.1 lumens
Efficiency: N/A
Efficacy: 131.7 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

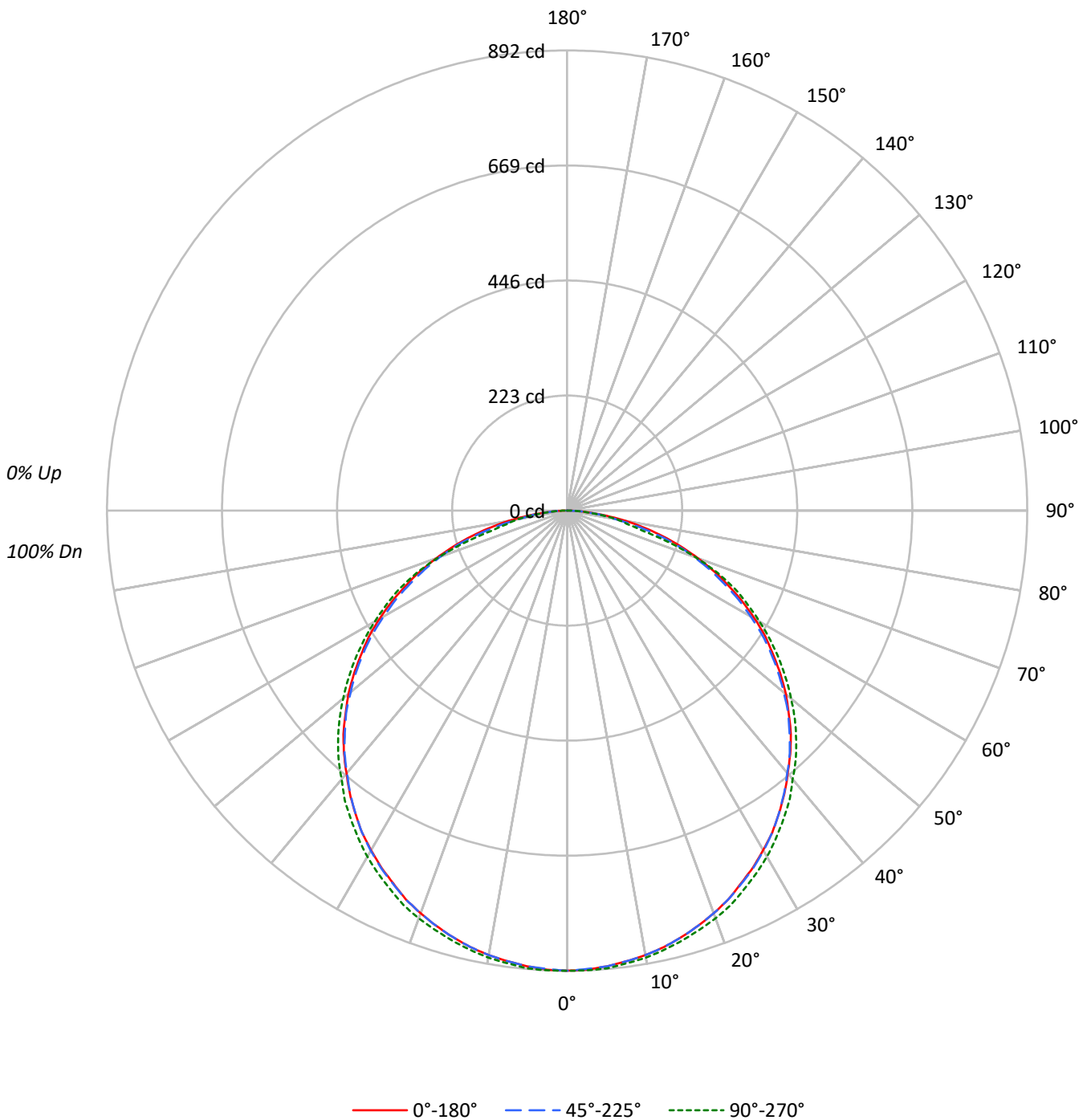
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3142	3142	3142
5°	3136	3136	3150
10°	3129	3129	3148
15°	3122	3122	3146
20°	3114	3114	3154
25°	3099	3104	3151
30°	3091	3097	3151
35°	3079	3079	3142
40°	3059	3053	3127
45°	3055	3035	3129
50°	3032	3003	3106
55°	2997	2965	3079
60°	2959	2894	3034
65°	2878	2801	2990
70°	2774	2691	2733
75°	2613	2450	2087
80°	2298	1921	2002
85°	1669	1617	1564



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.4	3.2
10°-20°	242.1	9.2
20°-30°	369.6	14.0
30°-40°	450.2	17.1
40°-50°	473.9	18.0
50°-60°	436.3	16.6
60°-70°	339.6	12.9
70°-80°	188.5	7.2
80°-90°	48.4	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°	696.2	26.4
0°-40°	1146.4	43.5
0°-60°	2056.6	78.1
0°-90°	2633.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2633.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	892	892	892	892	892	
5°	887	887	887	889	891	84
15°	856	856	856	860	863	242
25°	797	799	799	805	811	368
35°	716	716	716	724	731	448
45°	613	609	609	619	628	472
55°	488	487	483	491	501	437
65°	345	341	336	347	359	342
75°	192	188	180	160	153	202
85°	41	39	40	39	39	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	892.0	892.0	892.0	892.0	892.0
2.5°	890.7	889.3	889.3	892.0	892.0
5°	886.7	886.7	886.7	889.3	890.7
7.5°	881.3	881.3	881.3	885.3	885.3
10°	874.7	873.3	874.7	877.3	880.0
12.5°	866.7	865.3	866.7	869.3	872.0
15°	856.0	856.0	856.0	860.0	862.7
17.5°	844.0	842.7	844.0	848.0	852.0
20°	830.7	830.7	830.7	836.0	841.3
22.5°	816.0	814.7	816.0	822.7	828.0
25°	797.3	798.7	798.7	805.3	810.7
27.5°	780.0	778.7	781.3	786.7	793.3
30°	760.0	760.0	761.3	768.0	774.7
32.5°	740.0	738.7	740.0	746.7	753.3
35°	716.0	716.0	716.0	724.0	730.7
37.5°	692.0	690.7	690.7	698.7	708.0
40°	665.3	664.0	664.0	673.3	680.0
42.5°	640.0	638.7	638.7	646.7	656.0
45°	613.3	609.3	609.3	618.7	628.0
47.5°	582.7	580.0	581.3	589.3	598.7
50°	553.3	549.3	548.0	557.3	566.7
52.5°	521.3	520.0	516.0	524.0	534.7
55°	488.0	486.7	482.7	490.7	501.3
57.5°	456.0	452.0	448.0	454.7	466.7
60°	420.0	416.0	410.7	420.0	430.7
62.5°	384.0	378.7	374.7	382.7	394.7
65°	345.3	341.3	336.0	346.7	358.7
67.5°	309.3	305.3	298.7	308.0	316.0
70°	269.3	264.0	261.3	262.7	265.3
72.5°	230.7	228.0	224.0	213.3	210.7
75°	192.0	188.0	180.0	160.0	153.3
77.5°	153.3	150.7	136.0	118.7	118.7
80°	113.3	112.0	94.7	97.3	98.7
82.5°	77.3	74.7	69.3	68.0	68.0
85°	41.3	38.7	40.0	38.7	38.7
87.5°	16.0	16.0	17.3	16.0	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)