

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: P238809

Luminaire Tested: **22ENA-LD2-25-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238809
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-L830-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
AIR-VENTED OPTION
Light Source: (168)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2504.6 lumens
Efficiency: N/A
Efficacy: 125.2 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

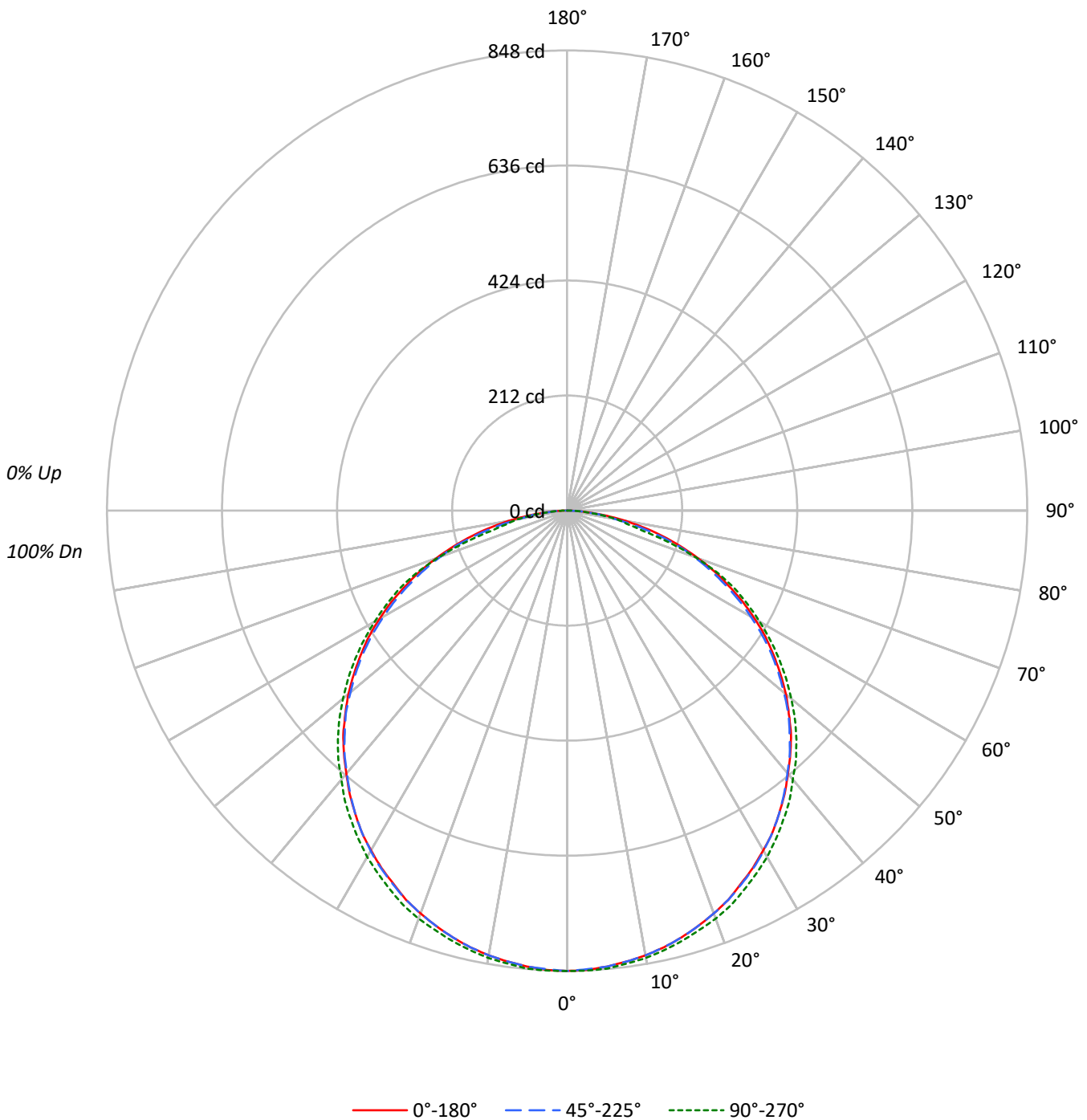
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2989	2989	2989
5°	2982	2982	2996
10°	2976	2976	2994
15°	2969	2969	2993
20°	2962	2962	3000
25°	2948	2953	2997
30°	2941	2946	2997
35°	2929	2929	2989
40°	2910	2904	2974
45°	2906	2888	2976
50°	2884	2857	2954
55°	2851	2820	2929
60°	2815	2752	2886
65°	2738	2664	2844
70°	2639	2561	2600
75°	2485	2330	1984
80°	2187	1826	1905
85°	1588	1536	1487



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.2	3.2
10°-20°	230.3	9.2
20°-30°	351.6	14.0
30°-40°	428.3	17.1
40°-50°	450.8	18.0
50°-60°	415.0	16.6
60°-70°	323.0	12.9
70°-80°	179.3	7.2
80°-90°	46.1	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°	662.2	26.4
0°-40°	1090.4	43.5
0°-60°	1956.2	78.1
0°-90°	2504.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2504.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	848	848	848	848	848	
5°	843	843	843	846	847	80
15°	814	814	814	818	821	230
25°	758	760	760	766	771	350
35°	681	681	681	689	695	426
45°	583	580	580	588	597	449
55°	464	463	459	467	477	415
65°	328	325	320	330	341	326
75°	183	179	171	152	146	192
85°	39	37	38	37	37	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	848.5	848.5	848.5	848.5	848.5
2.5°	847.2	845.9	845.9	848.5	848.5
5°	843.4	843.4	843.4	845.9	847.2
7.5°	838.3	838.3	838.3	842.1	842.1
10°	832.0	830.7	832.0	834.5	837.0
12.5°	824.4	823.1	824.4	826.9	829.4
15°	814.2	814.2	814.2	818.0	820.6
17.5°	802.8	801.5	802.8	806.6	810.4
20°	790.1	790.1	790.1	795.2	800.3
22.5°	776.2	774.9	776.2	782.5	787.6
25°	758.4	759.7	759.7	766.0	771.1
27.5°	741.9	740.7	743.2	748.3	754.6
30°	722.9	722.9	724.2	730.5	736.9
32.5°	703.9	702.6	703.9	710.2	716.6
35°	681.1	681.1	681.1	688.7	695.0
37.5°	658.2	657.0	657.0	664.6	673.4
40°	632.9	631.6	631.6	640.5	646.8
42.5°	608.8	607.5	607.5	615.1	624.0
45°	583.4	579.6	579.6	588.5	597.3
47.5°	554.2	551.7	553.0	560.6	569.4
50°	526.3	522.5	521.3	530.1	539.0
52.5°	495.9	494.6	490.8	498.4	508.6
55°	464.2	462.9	459.1	466.7	476.9
57.5°	433.7	429.9	426.1	432.5	443.9
60°	399.5	395.7	390.6	399.5	409.6
62.5°	365.3	360.2	356.4	364.0	375.4
65°	328.5	324.7	319.6	329.7	341.2
67.5°	294.2	290.4	284.1	293.0	300.6
70°	256.2	251.1	248.6	249.8	252.4
72.5°	219.4	216.9	213.1	202.9	200.4
75°	182.6	178.8	171.2	152.2	145.8
77.5°	145.8	143.3	129.4	112.9	112.9
80°	107.8	106.5	90.0	92.6	93.9
82.5°	73.6	71.0	65.9	64.7	64.7
85°	39.3	36.8	38.0	36.8	36.8
87.5°	15.2	15.2	16.5	15.2	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)