

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: P238834

Luminaire Tested: **22EN-LD2-25-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238834
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: 22EN-LD2-25-UNV-L935-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
STANDARD OPTION
Light Source: (168)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2280.1 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

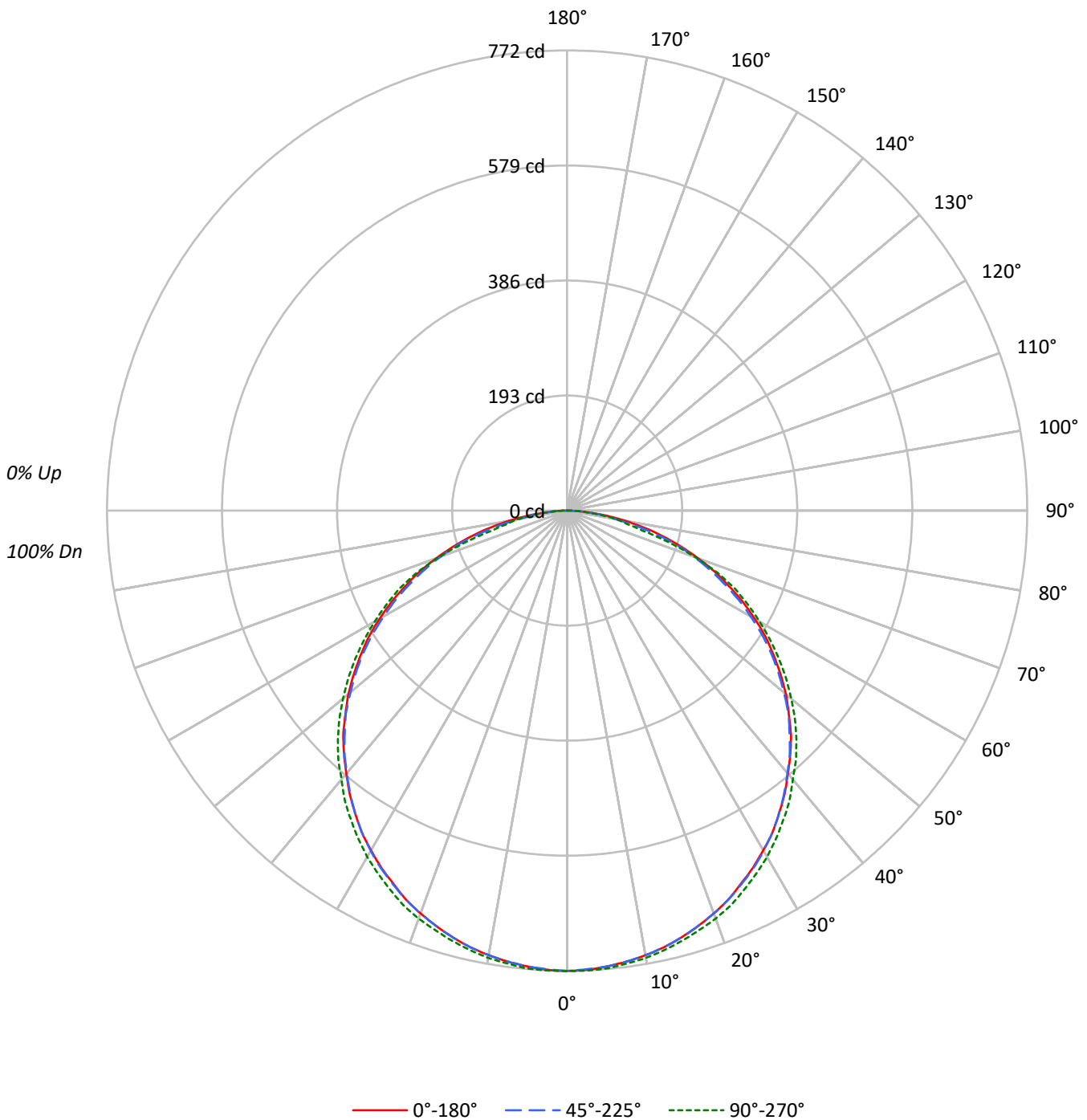
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2474	2474	2474
5°	2468	2468	2479
10°	2463	2463	2478
15°	2457	2457	2477
20°	2451	2451	2483
25°	2440	2444	2481
30°	2434	2438	2481
35°	2424	2424	2474
40°	2408	2404	2462
45°	2405	2390	2463
50°	2387	2364	2445
55°	2360	2333	2424
60°	2329	2278	2388
65°	2266	2204	2354
70°	2184	2119	2152
75°	2058	1929	1643
80°	1809	1512	1575
85°	1315	1271	1231



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	3.2
10°-20°	209.7	9.2
20°-30°	320.1	14.0
30°-40°	389.8	17.1
40°-50°	410.3	18.0
50°-60°	377.8	16.6
60°-70°	294.1	12.9
70°-80°	163.2	7.2
80°-90°	42.0	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°	602.8	26.4
0°-40°	992.7	43.5
0°-60°	1780.8	78.1
0°-90°	2280.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2280.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	768	768	768	770	771	73
15°	741	741	741	745	747	209
25°	690	692	692	697	702	319
35°	620	620	620	627	633	388
45°	531	528	528	536	544	409
55°	423	421	418	425	434	378
65°	299	296	291	300	311	296
75°	166	163	156	138	133	175
85°	36	34	35	34	34	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	772.4	772.4	772.4	772.4	772.4
2.5°	771.2	770.1	770.1	772.4	772.4
5°	767.8	767.8	767.8	770.1	771.2
7.5°	763.2	763.2	763.2	766.6	766.6
10°	757.4	756.2	757.4	759.7	762.0
12.5°	750.5	749.3	750.5	752.8	755.1
15°	741.2	741.2	741.2	744.7	747.0
17.5°	730.8	729.7	730.8	734.3	737.8
20°	719.3	719.3	719.3	723.9	728.5
22.5°	706.6	705.4	706.6	712.4	717.0
25°	690.4	691.6	691.6	697.3	702.0
27.5°	675.4	674.3	676.6	681.2	687.0
30°	658.1	658.1	659.2	665.0	670.8
32.5°	640.8	639.6	640.8	646.5	652.3
35°	620.0	620.0	620.0	626.9	632.7
37.5°	599.2	598.1	598.1	605.0	613.1
40°	576.1	575.0	575.0	583.0	588.8
42.5°	554.2	553.0	553.0	560.0	568.0
45°	531.1	527.6	527.6	535.7	543.8
47.5°	504.5	502.2	503.4	510.3	518.4
50°	479.1	475.7	474.5	482.6	490.7
52.5°	451.4	450.3	446.8	453.7	463.0
55°	422.6	421.4	417.9	424.9	434.1
57.5°	394.9	391.4	387.9	393.7	404.1
60°	363.7	360.2	355.6	363.7	372.9
62.5°	332.5	327.9	324.4	331.4	341.7
65°	299.0	295.6	290.9	300.2	310.6
67.5°	267.9	264.4	258.6	266.7	273.6
70°	233.2	228.6	226.3	227.4	229.8
72.5°	199.7	197.4	194.0	184.7	182.4
75°	166.3	162.8	155.9	138.5	132.8
77.5°	132.8	130.5	117.8	102.8	102.8
80°	98.1	97.0	82.0	84.3	85.4
82.5°	67.0	64.7	60.0	58.9	58.9
85°	35.8	33.5	34.6	33.5	33.5
87.5°	13.9	13.9	15.0	13.9	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)