

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: P238728

Luminaire Tested: **14ENA-LD2-28-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238728
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-LD2-28-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: 2309.3 lumens
Efficiency: N/A
Efficacy: 97.9 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

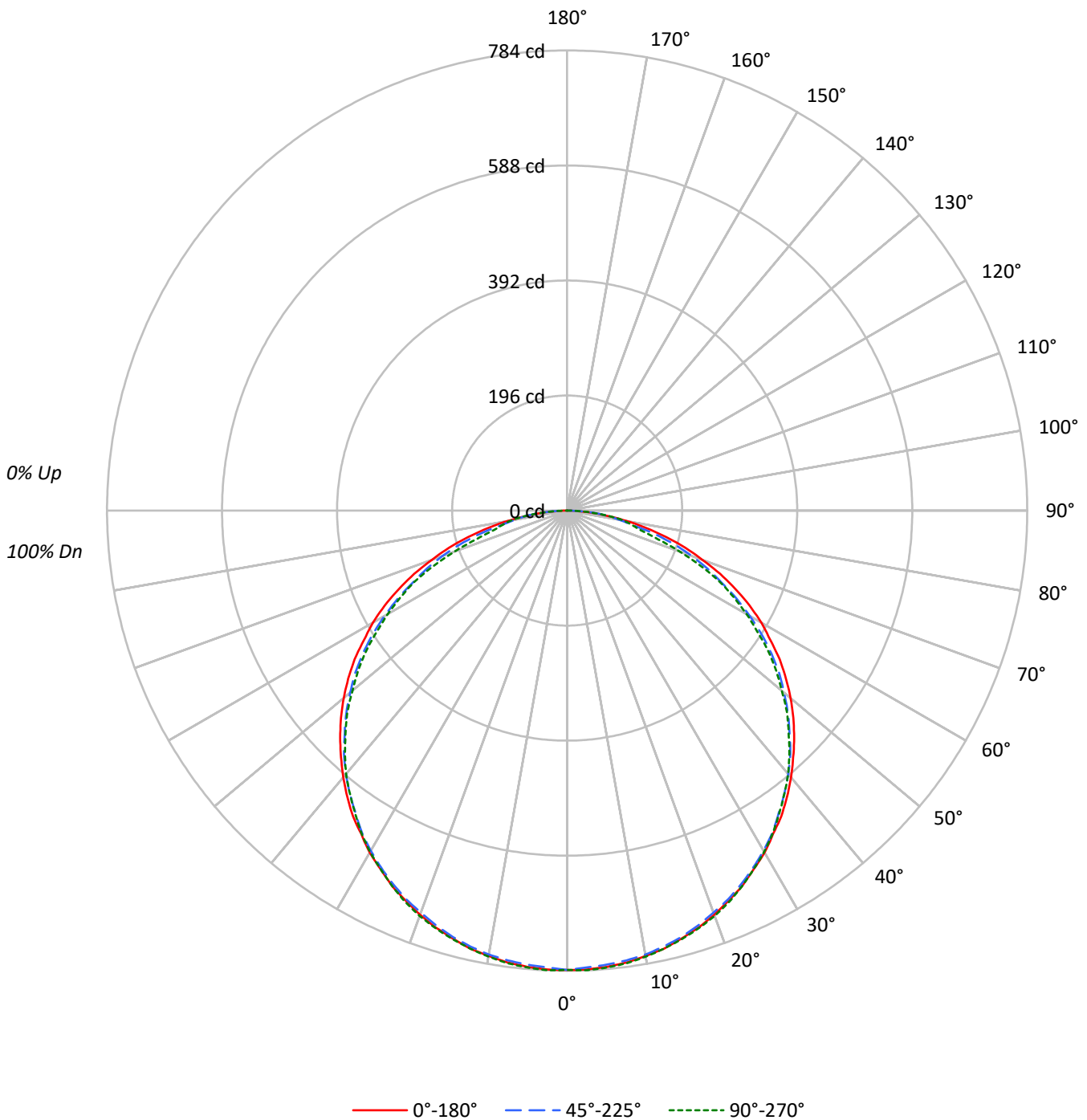
Input Watts (W): 23.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238728

CATALOG NUMBER: 14ENA-LD2-28-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P238728

CATALOG NUMBER: 14ENA-LD2-28-UNV-L950-CD1-U

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	97	94	97	94	91	93	90	88	90	87	85	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	40	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°	3296	3296	3296
5°	3299	3283	3304
10°	3295	3285	3301
15°	3290	3280	3296
20°	3284	3267	3294
25°	3280	3263	3280
30°	3272	3254	3266
35°	3271	3233	3239
40°	3263	3223	3223
45°	3258	3193	3178
50°	3256	3160	3128
55°	3246	3120	3075
60°	3220	3024	2973
65°	3151	2896	2859
70°	3022	2782	2511
75°	2841	2503	2106
80°	2518	2161	2370
85°	1948	2242	2126



TEST NUMBER: P238728

CATALOG NUMBER: 14ENA-LD2-28-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	3.2
10°-20°	212.9	9.2
20°-30°	324.4	14.0
30°-40°	395.1	17.1
40°-50°	415.4	18.0
50°-60°	381.3	16.5
60°-70°	293.0	12.7
70°-80°	163.5	7.1
80°-90°	49.6	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°	611.4	26.5
0°-40°	1006.5	43.6
0°-60°	1803.2	78.1
0°-90°	2309.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2309.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	783	783	783	783	783	
5°	780	780	776	780	781	74
15°	755	755	752	755	756	213
25°	706	703	702	704	706	325
35°	636	634	629	630	630	398
45°	547	543	536	534	534	422
55°	442	438	425	418	419	394
65°	316	308	291	287	287	312
75°	175	166	154	133	129	184
85°	40	42	46	45	44	49
90°	0	0	0	0	0	



TEST NUMBER: P238728

CATALOG NUMBER: 14ENA-LD2-28-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	782.6	782.6	782.6	782.6	782.6
2.5°	782.6	782.6	779.0	782.6	783.9
5°	780.2	780.2	776.5	780.2	781.4
7.5°	776.5	776.5	772.9	775.3	777.8
10°	770.4	770.4	768.0	770.4	771.7
12.5°	764.3	763.1	760.7	763.1	764.3
15°	754.6	754.6	752.1	754.6	755.8
17.5°	744.8	743.6	741.1	744.8	746.0
20°	732.6	731.4	728.9	732.6	735.0
22.5°	719.2	717.9	716.7	720.4	721.6
25°	705.7	703.3	702.1	704.5	705.7
27.5°	688.6	687.4	686.2	687.4	688.6
30°	672.8	670.3	669.1	669.1	671.5
32.5°	653.2	652.0	650.8	652.0	652.0
35°	636.1	633.7	628.8	630.0	630.0
37.5°	615.4	611.7	608.0	608.0	608.0
40°	593.4	591.0	586.1	584.8	586.1
42.5°	570.2	567.8	562.9	559.2	560.4
45°	547.0	543.3	536.0	533.6	533.6
47.5°	522.6	518.9	510.4	506.7	507.9
50°	496.9	492.1	482.3	477.4	477.4
52.5°	470.1	465.2	455.4	449.3	449.3
55°	442.0	438.3	424.9	417.6	418.8
57.5°	410.2	406.6	393.2	384.6	384.6
60°	382.2	374.8	359.0	352.9	352.9
62.5°	350.4	341.9	326.0	318.7	319.9
65°	316.2	307.7	290.6	286.9	286.9
67.5°	282.0	274.7	258.8	252.7	246.6
70°	245.4	238.1	225.9	211.2	203.9
72.5°	211.2	202.7	191.7	169.7	162.4
75°	174.6	166.1	153.8	133.1	129.4
77.5°	139.2	131.9	114.8	109.9	112.3
80°	103.8	101.3	89.1	94.0	97.7
82.5°	69.6	68.4	70.8	73.3	73.3
85°	40.3	41.5	46.4	45.2	44.0
87.5°	17.1	20.8	19.5	19.5	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)