

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: P238689

Luminaire Tested: **14EN-LD2-25-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238689
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: 14EN-LD2-25-UNV-L930-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
STANDARD OPTION
Light Source: (224)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2100.6 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 1' x L: 3.83' x H: 0')
CIE Type: Direct

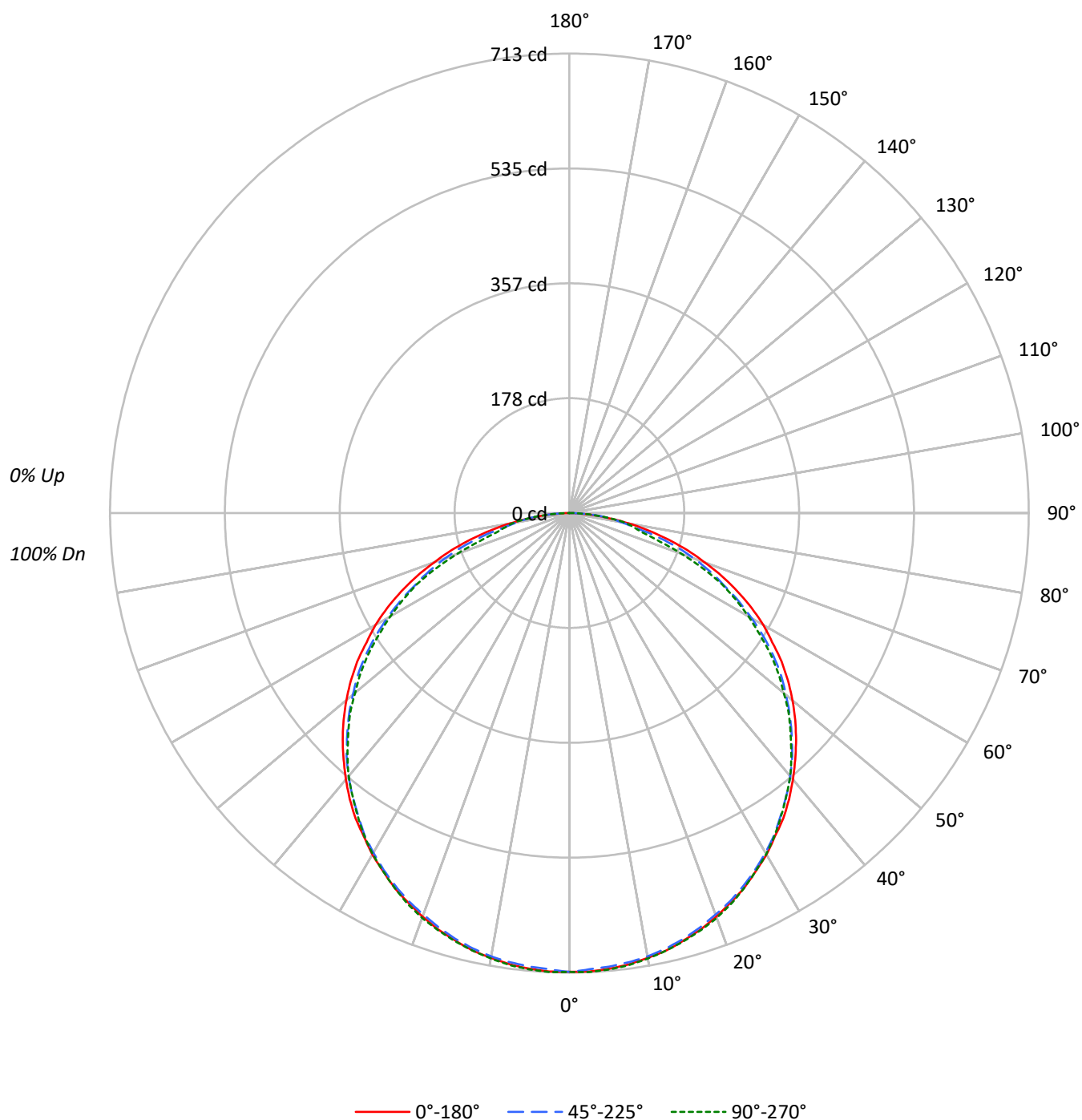
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	109	104	99	95	106	101	97	94		97	94	91			93	90	88			90
2	99	90	83	77	96	88	82	76		85	79	75			81	77	73			78
3	90	79	71	64	87	77	70	63		74	68	62			72	66	61			69
4	82	70	61	54	80	68	60	54		66	59	53			64	57	52			61
5	75	62	53	46	73	61	53	46		59	51	46			57	50	45			55
6	69	56	47	40	68	55	46	40		53	46	40			51	45	39			50
7	64	51	42	36	63	50	41	35		48	41	35			47	40	35			45
8	60	46	38	32	58	45	37	32		44	37	31			43	36	31			42
9	56	42	34	28	54	42	34	28		41	33	28			40	33	28			38
10	52	39	31	26	51	39	31	26		38	30	26			37	30	25			36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1999	1999	1999
5°	2000	1991	2004
10°	1998	1992	2001
15°	1995	1989	1999
20°	1991	1981	1998
25°	1989	1979	1989
30°	1984	1973	1980
35°	1983	1961	1965
40°	1979	1954	1954
45°	1976	1936	1927
50°	1975	1916	1897
55°	1968	1892	1865
60°	1952	1834	1803
65°	1912	1756	1734
70°	1832	1687	1523
75°	1723	1518	1277
80°	1526	1311	1438
85°	1182	1360	1289



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	3.2
10°-20°	193.6	9.2
20°-30°	295.1	14.0
30°-40°	359.4	17.1
40°-50°	377.9	18.0
50°-60°	346.8	16.5
60°-70°	266.5	12.7
70°-80°	148.7	7.1
80°-90°	45.2	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°	556.2	26.5
0°-40°	915.5	43.6
0°-60°	1640.2	78.1
0°-90°	2100.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2100.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	712	712	712	712	712	
5°	710	710	706	710	711	67
15°	686	686	684	686	688	194
25°	642	640	639	641	642	296
35°	579	576	572	573	573	362
45°	498	494	488	485	485	384
55°	402	399	386	380	381	359
65°	288	280	264	261	261	284
75°	159	151	140	121	118	168
85°	37	38	42	41	40	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	711.9	711.9	711.9	711.9	711.9
2.5°	711.9	711.9	708.6	711.9	713.0
5°	709.7	709.7	706.4	709.7	710.8
7.5°	706.4	706.4	703.0	705.2	707.5
10°	700.8	700.8	698.6	700.8	701.9
12.5°	695.3	694.1	691.9	694.1	695.3
15°	686.4	686.4	684.1	686.4	687.5
17.5°	677.5	676.4	674.2	677.5	678.6
20°	666.4	665.3	663.0	666.4	668.6
22.5°	654.2	653.0	651.9	655.3	656.4
25°	641.9	639.7	638.6	640.8	641.9
27.5°	626.4	625.3	624.2	625.3	626.4
30°	612.0	609.7	608.6	608.6	610.8
32.5°	594.2	593.1	592.0	593.1	593.1
35°	578.6	576.4	572.0	573.1	573.1
37.5°	559.8	556.4	553.1	553.1	553.1
40°	539.8	537.5	533.1	532.0	533.1
42.5°	518.7	516.4	512.0	508.7	509.8
45°	497.6	494.2	487.6	485.3	485.3
47.5°	475.3	472.0	464.2	460.9	462.0
50°	452.0	447.6	438.7	434.3	434.3
52.5°	427.6	423.1	414.3	408.7	408.7
55°	402.0	398.7	386.5	379.8	380.9
57.5°	373.2	369.8	357.6	349.8	349.8
60°	347.6	341.0	326.5	321.0	321.0
62.5°	318.8	311.0	296.5	289.9	291.0
65°	287.7	279.9	264.3	261.0	261.0
67.5°	256.6	249.9	235.5	229.9	224.3
70°	223.2	216.6	205.5	192.1	185.5
72.5°	192.1	184.4	174.4	154.4	147.7
75°	158.8	151.0	139.9	121.1	117.7
77.5°	126.6	119.9	104.4	100.0	102.2
80°	94.4	92.2	81.1	85.5	88.9
82.5°	63.3	62.2	64.4	66.6	66.6
85°	36.7	37.8	42.2	41.1	40.0
87.5°	15.5	18.9	17.8	17.8	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)