

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: P238690

Luminaire Tested: **14EN-LD2-25-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238690
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-L935-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
STANDARD OPTION
Light Source: (224)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2158.5 lumens
Efficiency: N/A
Efficacy: 103.3 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

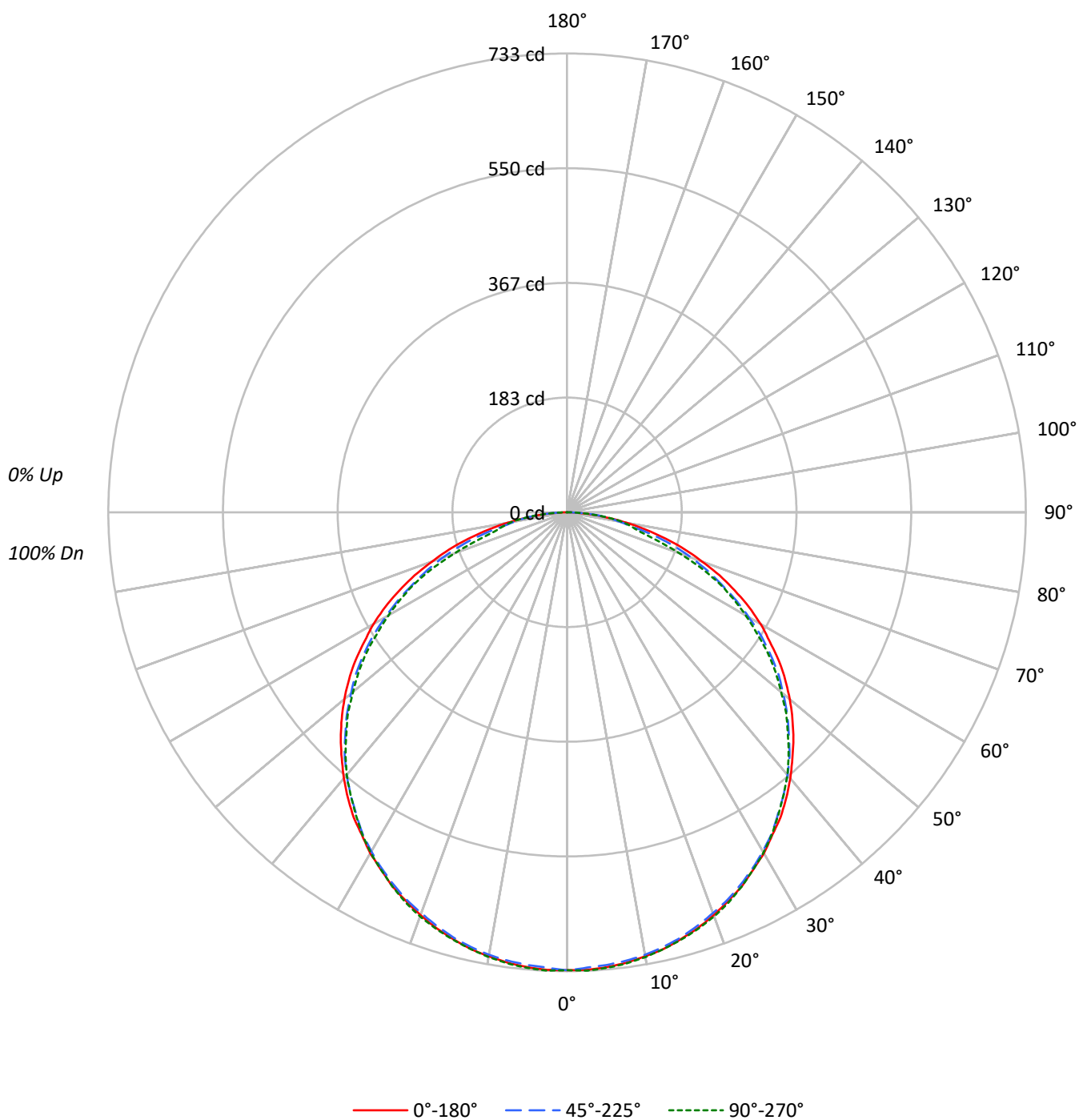
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	99	95	106	101	97	94		97	94	91		93	90	88		90	87	85
2	99	90	83	77	96	88	82	76		85	79	75		81	77	73		78	75	71
3	90	79	71	64	87	77	70	63		74	68	62		72	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	69	56	47	40	68	55	46	40		53	46	40		51	45	39		50	44	39
7	64	51	42	36	63	50	41	35		48	41	35		47	40	35		45	39	35
8	60	46	38	32	58	45	37	32		44	37	31		43	36	31		42	36	31
9	56	42	34	28	54	42	34	28		41	33	28		40	33	28		38	32	28
10	52	39	31	26	51	39	31	26		38	30	26		37	30	25		36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2054	2054	2054
5°	2056	2046	2059
10°	2053	2047	2057
15°	2050	2044	2054
20°	2046	2036	2053
25°	2044	2033	2044
30°	2039	2028	2035
35°	2038	2015	2019
40°	2033	2008	2008
45°	2030	1990	1980
50°	2029	1969	1949
55°	2022	1945	1916
60°	2006	1884	1852
65°	1964	1805	1782
70°	1883	1733	1565
75°	1771	1560	1313
80°	1569	1347	1476
85°	1215	1398	1324



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	3.2
10°-20°	199.0	9.2
20°-30°	303.3	14.0
30°-40°	369.3	17.1
40°-50°	388.3	18.0
50°-60°	356.4	16.5
60°-70°	273.8	12.7
70°-80°	152.8	7.1
80°-90°	46.4	2.2
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°	571.5	26.5
0°-40°	940.8	43.6
0°-60°	1685.5	78.1
0°-90°	2158.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2158.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	732	732	732	732	732	
5°	729	729	726	729	730	69
15°	705	705	703	705	706	199
25°	660	657	656	658	660	304
35°	595	592	588	589	589	372
45°	511	508	501	499	499	394
55°	413	410	397	390	391	368
65°	296	288	272	268	268	292
75°	163	155	144	124	121	172
85°	38	39	43	42	41	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	731.5	731.5	731.5	731.5	731.5
2.5°	731.5	731.5	728.1	731.5	732.7
5°	729.3	729.3	725.8	729.3	730.4
7.5°	725.8	725.8	722.4	724.7	727.0
10°	720.1	720.1	717.8	720.1	721.3
12.5°	714.4	713.3	711.0	713.3	714.4
15°	705.3	705.3	703.0	705.3	706.4
17.5°	696.2	695.0	692.7	696.2	697.3
20°	684.7	683.6	681.3	684.7	687.0
22.5°	672.2	671.0	669.9	673.3	674.5
25°	659.6	657.4	656.2	658.5	659.6
27.5°	643.7	642.5	641.4	642.5	643.7
30°	628.8	626.5	625.4	625.4	627.7
32.5°	610.6	609.4	608.3	609.4	609.4
35°	594.6	592.3	587.7	588.9	588.9
37.5°	575.2	571.8	568.3	568.3	568.3
40°	554.6	552.4	547.8	546.7	547.8
42.5°	533.0	530.7	526.1	522.7	523.8
45°	511.3	507.9	501.0	498.7	498.7
47.5°	488.4	485.0	477.0	473.6	474.8
50°	464.5	459.9	450.8	446.2	446.2
52.5°	439.4	434.8	425.7	420.0	420.0
55°	413.1	409.7	397.2	390.3	391.4
57.5°	383.5	380.0	367.5	359.5	359.5
60°	357.2	350.4	335.5	329.8	329.8
62.5°	327.5	319.5	304.7	297.9	299.0
65°	295.6	287.6	271.6	268.2	268.2
67.5°	263.6	256.8	241.9	236.2	230.5
70°	229.4	222.5	211.1	197.4	190.6
72.5°	197.4	189.4	179.2	158.6	151.8
75°	163.2	155.2	143.8	124.4	121.0
77.5°	130.1	123.3	107.3	102.7	105.0
80°	97.0	94.7	83.3	87.9	91.3
82.5°	65.1	63.9	66.2	68.5	68.5
85°	37.7	38.8	43.4	42.2	41.1
87.5°	16.0	19.4	18.3	18.3	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)