

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: P183142

Luminaire Tested: **12EN-LD2-23-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183142
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34480)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12EN-LD2-23-UNV-L850-CD1-U
Description: METALUX ENCOUNTER 1X2 TROFFER

Light Source: EATON LED 5000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2658.4 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 0.92' x L: 1.92' x H: 0')
CIE Type: Direct

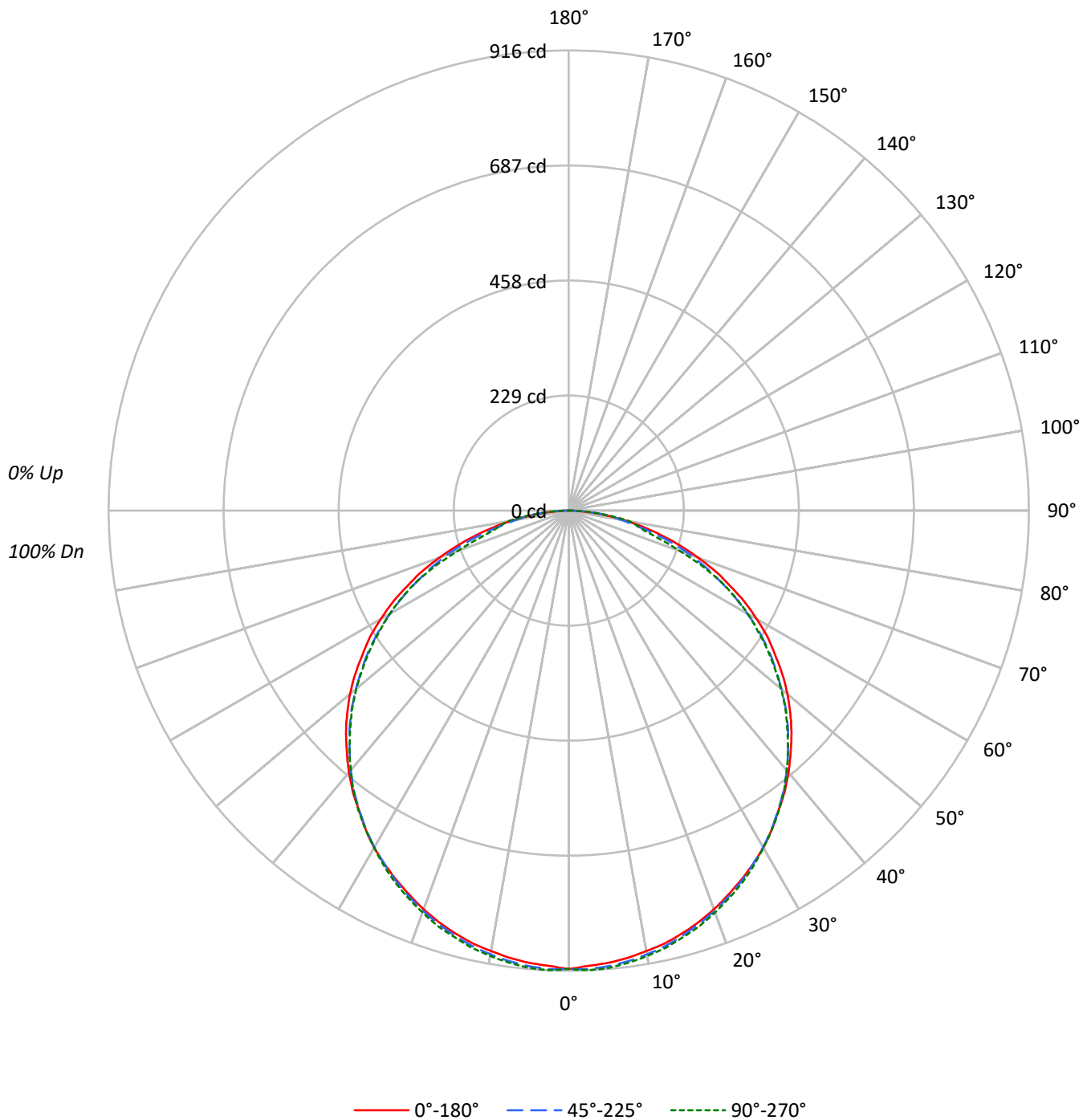
Input Watts (W): 20.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	69	60	54		66	59	53		64	57	52		61	56	52
5	75	62	53	46	73	61	53	46		59	52	46		57	50	45		55	49	45
6	70	56	47	40	68	55	47	40		53	46	40		52	45	40		50	44	39
7	64	51	42	36	63	50	42	36		48	41	35		47	40	35		46	39	35
8	60	46	38	32	58	46	37	32		44	37	31		43	36	31		42	36	31
9	56	42	34	29	55	42	34	28		41	33	28		40	33	28		39	32	28
10	52	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5590	5590	5590
5°	5558	5598	5619
10°	5539	5580	5601
15°	5528	5555	5576
20°	5508	5529	5552
25°	5486	5500	5523
30°	5482	5474	5482
35°	5446	5438	5455
40°	5442	5398	5398
45°	5434	5348	5328
50°	5417	5269	5258
55°	5360	5193	5158
60°	5291	5034	5047
65°	5133	4811	4827
70°	4912	4614	4215
75°	4547	4152	3705
80°	4075	3683	4308
85°	3276	3669	3669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	3.2
10°-20°	247.1	9.3
20°-30°	375.1	14.1
30°-40°	455.5	17.1
40°-50°	477.5	18.0
50°-60°	436.8	16.4
60°-70°	334.4	12.6
70°-80°	187.7	7.1
80°-90°	57.8	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°	708.7	26.7
0°-40°	1164.2	43.8
0°-60°	2078.4	78.2
0°-90°	2658.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2658.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	912	912	912	912	912	
5°	904	906	910	912	914	86
15°	872	873	876	878	879	246
25°	812	812	814	815	817	374
35°	728	728	727	727	729	457
45°	627	624	617	615	615	484
55°	502	498	486	481	483	449
65°	354	346	332	334	333	351
75°	192	185	175	159	156	204
85°	47	48	52	52	52	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	912.5	912.5	912.5	912.5	912.5
2.5°	907.0	909.2	913.6	915.9	915.9
5°	903.7	905.9	910.3	912.5	913.6
7.5°	898.1	900.3	904.8	908.1	908.1
10°	890.3	892.5	897.0	900.3	900.3
12.5°	882.6	883.7	888.1	890.3	891.4
15°	871.5	872.6	875.9	878.1	879.2
17.5°	859.2	859.2	862.6	864.8	867.0
20°	844.8	845.9	848.1	850.4	851.5
22.5°	828.2	829.3	831.5	833.7	834.8
25°	811.5	811.5	813.7	814.8	817.1
27.5°	793.7	793.7	793.7	794.9	797.1
30°	774.9	773.8	773.8	772.7	774.9
32.5°	752.7	752.7	751.6	750.5	752.7
35°	728.2	728.2	727.1	727.1	729.4
37.5°	706.0	704.9	702.7	700.5	703.8
40°	680.5	679.4	675.0	672.7	675.0
42.5°	653.9	651.6	646.1	643.9	646.1
45°	627.2	623.9	617.2	615.0	615.0
47.5°	598.4	595.0	586.2	582.8	585.0
50°	568.4	563.9	552.8	550.6	551.7
52.5°	536.2	530.6	519.5	517.3	517.3
55°	501.8	498.5	486.2	480.7	482.9
57.5°	469.6	462.9	449.6	442.9	446.3
60°	431.8	424.1	410.8	407.4	411.9
62.5°	395.2	386.3	373.0	370.8	374.1
65°	354.1	346.4	331.9	334.2	333.0
67.5°	316.4	307.5	295.3	289.7	286.4
70°	274.2	266.4	257.6	242.0	235.3
72.5°	233.1	226.5	217.6	196.5	192.1
75°	192.1	185.4	175.4	158.7	156.5
77.5°	153.2	148.8	134.3	134.3	139.9
80°	115.5	113.2	104.4	116.6	122.1
82.5°	77.7	75.5	84.4	88.8	87.7
85°	46.6	47.7	52.2	52.2	52.2
87.5°	20.0	22.2	23.3	23.3	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)