

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: P183140

Luminaire Tested: **12EN-LD2-23-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183140
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-L835-CD1-U
Description: METALUX ENCOUNTER 1X2 TROFFER

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2395.0 lumens
Efficiency: N/A
Efficacy: 116.8 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

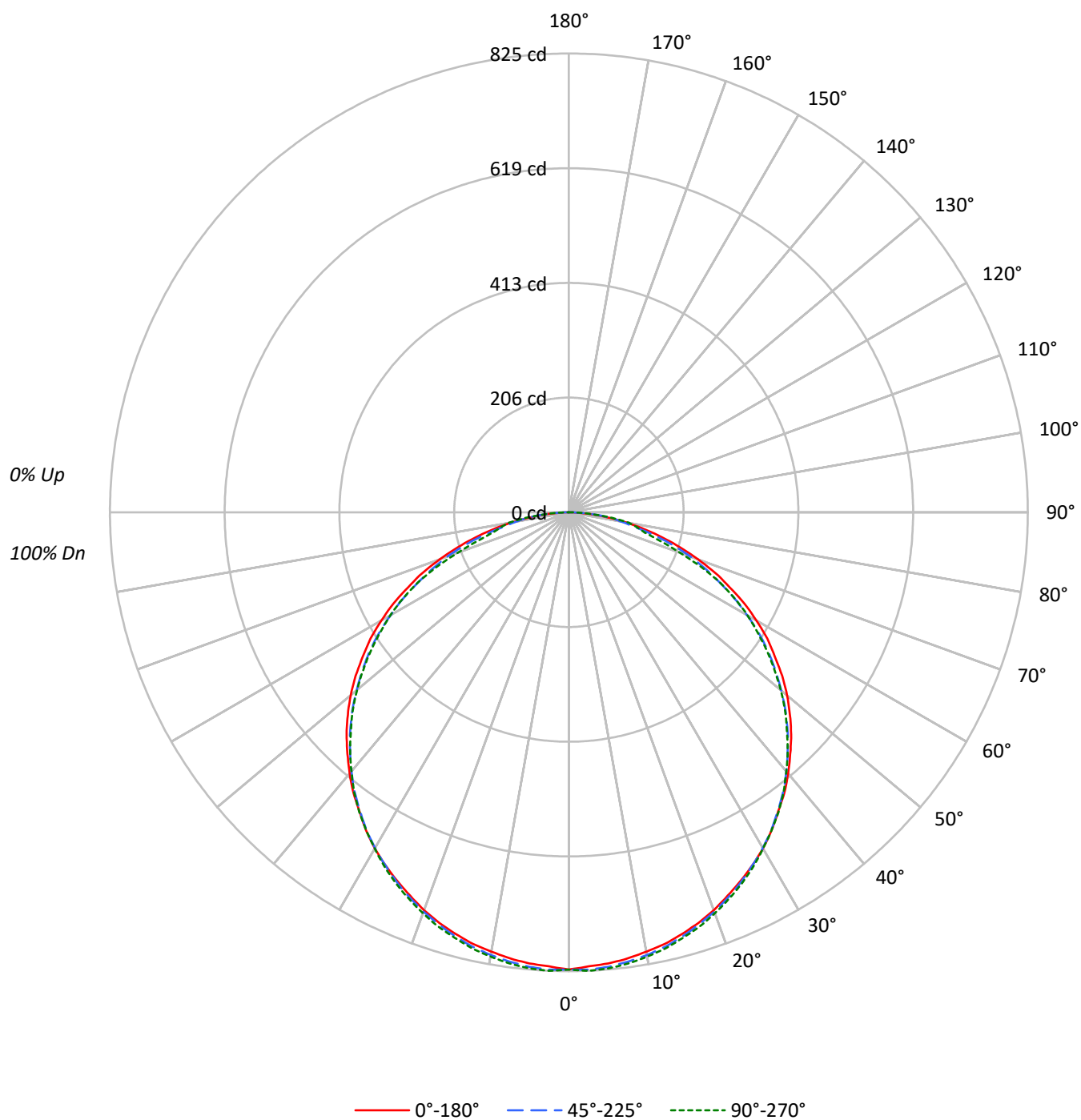
Input Watts (W): 20.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	109	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		72	66	61		58
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	52	46		57	50	45		43
6	70	56	47	40	68	55	47	40	53	46	40		52	45	40		37
7	64	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		29
9	56	42	34	29	55	42	34	28	41	33	28		40	33	28		26
10	52	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5037	5037	5037
5°	5007	5044	5062
10°	4990	5027	5046
15°	4980	5005	5024
20°	4962	4982	5001
25°	4942	4956	4976
30°	4939	4931	4939
35°	4907	4900	4914
40°	4903	4863	4863
45°	4896	4818	4801
50°	4881	4747	4738
55°	4829	4679	4647
60°	4766	4534	4546
65°	4624	4334	4349
70°	4424	4156	3797
75°	4095	3740	3338
80°	3669	3316	3881
85°	2952	3304	3304



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.8	3.2
10°-20°	222.7	9.3
20°-30°	338.0	14.1
30°-40°	410.4	17.1
40°-50°	430.2	18.0
50°-60°	393.5	16.4
60°-70°	301.3	12.6
70°-80°	169.1	7.1
80°-90°	52.1	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°	638.4	26.7
0°-40°	1048.8	43.8
0°-60°	1872.5	78.2
0°-90°	2395.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2395.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	822	822	822	822	822	
5°	814	816	820	822	823	77
15°	785	786	789	791	792	222
25°	731	731	733	734	736	337
35°	656	656	655	655	657	411
45°	565	562	556	554	554	436
55°	452	449	438	433	435	405
65°	319	312	299	301	300	316
75°	173	167	158	143	141	184
85°	42	43	47	47	47	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	822.1	822.1	822.1	822.1	822.1
2.5°	817.1	819.1	823.1	825.1	825.1
5°	814.1	816.1	820.1	822.1	823.1
7.5°	809.1	811.1	815.1	818.1	818.1
10°	802.1	804.1	808.1	811.1	811.1
12.5°	795.1	796.1	800.1	802.1	803.1
15°	785.1	786.1	789.1	791.1	792.1
17.5°	774.1	774.1	777.1	779.1	781.1
20°	761.1	762.1	764.1	766.1	767.1
22.5°	746.1	747.1	749.1	751.1	752.1
25°	731.1	731.1	733.1	734.1	736.1
27.5°	715.1	715.1	715.1	716.1	718.1
30°	698.1	697.1	697.1	696.1	698.1
32.5°	678.1	678.1	677.1	676.1	678.1
35°	656.1	656.1	655.1	655.1	657.1
37.5°	636.1	635.1	633.1	631.1	634.1
40°	613.1	612.1	608.1	606.1	608.1
42.5°	589.1	587.1	582.1	580.1	582.1
45°	565.1	562.1	556.1	554.1	554.1
47.5°	539.1	536.1	528.1	525.1	527.1
50°	512.1	508.1	498.1	496.1	497.1
52.5°	483.1	478.1	468.1	466.1	466.1
55°	452.1	449.1	438.1	433.1	435.1
57.5°	423.1	417.1	405.0	399.0	402.0
60°	389.0	382.0	370.0	367.0	371.0
62.5°	356.0	348.0	336.0	334.0	337.0
65°	319.0	312.0	299.0	301.0	300.0
67.5°	285.0	277.0	266.0	261.0	258.0
70°	247.0	240.0	232.0	218.0	212.0
72.5°	210.0	204.0	196.0	177.0	173.0
75°	173.0	167.0	158.0	143.0	141.0
77.5°	138.0	134.0	121.0	121.0	126.0
80°	104.0	102.0	94.0	105.0	110.0
82.5°	70.0	68.0	76.0	80.0	79.0
85°	42.0	43.0	47.0	47.0	47.0
87.5°	18.0	20.0	21.0	21.0	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)