

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: P183145

Luminaire Tested: **12EN-LD2-27-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183145
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-LD2-27-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: 2790.0 lumens
Efficiency: N/A
Efficacy: 116.3 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

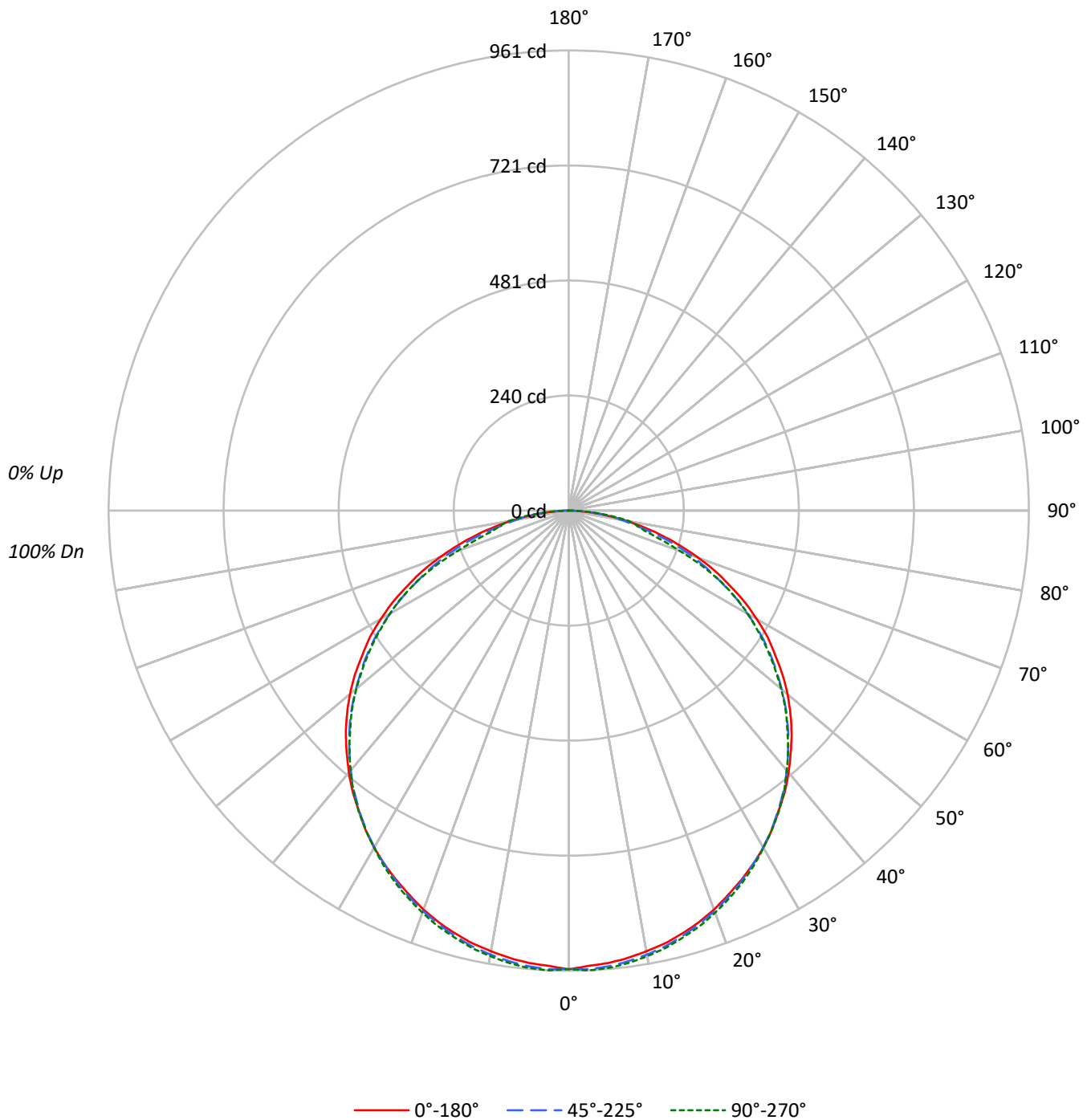
Input Watts (W): 24
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5867	5867	5867
5°	5833	5876	5897
10°	5813	5856	5878
15°	5801	5830	5852
20°	5780	5803	5826
25°	5757	5773	5797
30°	5753	5745	5753
35°	5716	5707	5725
40°	5712	5665	5665
45°	5704	5613	5592
50°	5685	5530	5519
55°	5625	5451	5413
60°	5553	5282	5296
65°	5388	5051	5067
70°	5155	4842	4424
75°	4772	4358	3889
80°	4276	3863	4523
85°	3437	3852	3852



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	3.2
10°-20°	259.4	9.3
20°-30°	393.7	14.1
30°-40°	478.0	17.1
40°-50°	501.1	18.0
50°-60°	458.4	16.4
60°-70°	351.0	12.6
70°-80°	197.0	7.1
80°-90°	60.7	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°	743.7	26.7
0°-40°	1221.8	43.8
0°-60°	2181.3	78.2
0°-90°	2790.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2790.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	948	951	955	958	959	90
15°	915	916	919	922	923	258
25°	852	852	854	855	858	393
35°	764	764	763	763	766	479
45°	658	655	648	645	645	508
55°	527	523	510	504	507	471
65°	372	364	348	351	350	368
75°	202	195	184	167	164	214
85°	49	50	55	55	55	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	957.7	957.7	957.7	957.7	957.7
2.5°	951.9	954.2	958.9	961.2	961.2
5°	948.4	950.7	955.4	957.7	958.9
7.5°	942.5	944.9	949.5	953.0	953.0
10°	934.4	936.7	941.4	944.9	944.9
12.5°	926.2	927.4	932.1	934.4	935.6
15°	914.6	915.7	919.2	921.6	922.7
17.5°	901.8	901.8	905.3	907.6	909.9
20°	886.6	887.8	890.1	892.4	893.6
22.5°	869.1	870.3	872.6	875.0	876.1
25°	851.7	851.7	854.0	855.2	857.5
27.5°	833.0	833.0	833.0	834.2	836.5
30°	813.2	812.1	812.1	810.9	813.2
32.5°	789.9	789.9	788.8	787.6	789.9
35°	764.3	764.3	763.1	763.1	765.5
37.5°	741.0	739.8	737.5	735.2	738.7
40°	714.2	713.0	708.4	706.0	708.4
42.5°	686.2	683.9	678.1	675.7	678.1
45°	658.3	654.8	647.8	645.4	645.4
47.5°	628.0	624.5	615.2	611.7	614.0
50°	596.5	591.9	580.2	577.9	579.0
52.5°	562.7	556.9	545.3	542.9	542.9
55°	526.6	523.1	510.3	504.5	506.8
57.5°	492.8	485.8	471.9	464.9	468.4
60°	453.2	445.1	431.1	427.6	432.2
62.5°	414.8	405.4	391.5	389.1	392.6
65°	371.7	363.5	348.4	350.7	349.5
67.5°	332.0	322.7	309.9	304.1	300.6
70°	287.8	279.6	270.3	254.0	247.0
72.5°	244.7	237.7	228.4	206.2	201.6
75°	201.6	194.6	184.1	166.6	164.3
77.5°	160.8	156.1	141.0	141.0	146.8
80°	121.2	118.8	109.5	122.3	128.2
82.5°	81.6	79.2	88.5	93.2	92.0
85°	48.9	50.1	54.8	54.8	54.8
87.5°	21.0	23.3	24.5	24.5	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)