

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: P183146

Luminaire Tested: **12EN-LD2-27-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183146
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-L840-CD1-U
Description: METALUX ENCOUNTER 1X2 TROFFER

Light Source: EATON LED 4000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2845.8 lumens
Efficiency: N/A
Efficacy: 118.6 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

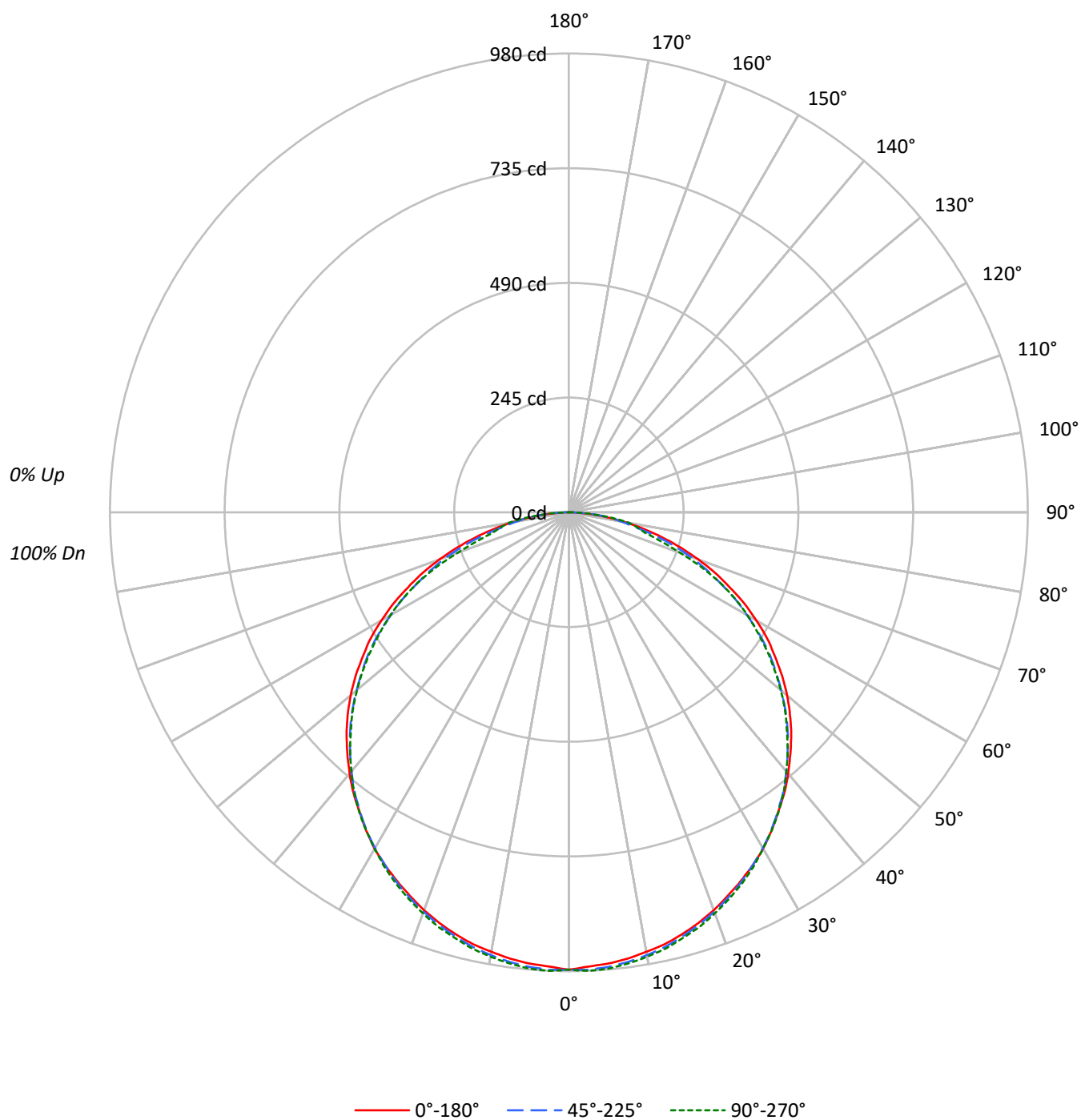
Input Watts (W): 24
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20				
RC	80				70					50					30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	0
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83	
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69	
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58	
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49	
5	75	62	53	46	73	61	53	46	59	52	46	57	50	45	55	49	45	43	
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37	
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33	
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29	
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26	
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5984	5984	5984
5°	5949	5993	6015
10°	5929	5973	5996
15°	5917	5947	5970
20°	5896	5919	5943
25°	5872	5888	5912
30°	5868	5860	5868
35°	5831	5822	5840
40°	5826	5778	5778
45°	5817	5724	5704
50°	5799	5641	5629
55°	5737	5560	5521
60°	5665	5388	5402
65°	5496	5151	5168
70°	5257	4939	4512
75°	4867	4445	3967
80°	4361	3941	4611
85°	3508	3929	3929



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	3.2
10°-20°	264.6	9.3
20°-30°	401.6	14.1
30°-40°	487.6	17.1
40°-50°	511.1	18.0
50°-60°	467.6	16.4
60°-70°	358.0	12.6
70°-80°	201.0	7.1
80°-90°	61.9	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°	758.6	26.7
0°-40°	1246.2	43.8
0°-60°	2224.9	78.2
0°-90°	2845.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2845.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	977	977	977	977	977	
5°	967	970	974	977	978	92
15°	933	934	938	940	941	263
25°	869	869	871	872	875	401
35°	780	780	778	778	781	489
45°	671	668	661	658	658	518
55°	537	534	520	515	517	481
65°	379	371	355	358	356	376
75°	206	198	188	170	168	218
85°	50	51	56	56	56	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	976.8	976.8	976.8	976.8	976.8
2.5°	970.9	973.3	978.0	980.4	980.4
5°	967.3	969.7	974.5	976.8	978.0
7.5°	961.4	963.8	968.5	972.1	972.1
10°	953.1	955.5	960.2	963.8	963.8
12.5°	944.8	945.9	950.7	953.1	954.3
15°	932.9	934.1	937.6	940.0	941.2
17.5°	919.8	919.8	923.4	925.7	928.1
20°	904.4	905.5	907.9	910.3	911.5
22.5°	886.5	887.7	890.1	892.5	893.7
25°	868.7	868.7	871.1	872.3	874.6
27.5°	849.7	849.7	849.7	850.9	853.3
30°	829.5	828.3	828.3	827.1	829.5
32.5°	805.7	805.7	804.5	803.3	805.7
35°	779.6	779.6	778.4	778.4	780.8
37.5°	755.8	754.6	752.2	749.9	753.4
40°	728.5	727.3	722.5	720.2	722.5
42.5°	700.0	697.6	691.6	689.3	691.6
45°	671.4	667.9	660.7	658.4	658.4
47.5°	640.5	637.0	627.5	623.9	626.3
50°	608.4	603.7	591.8	589.4	590.6
52.5°	574.0	568.0	556.2	553.8	553.8
55°	537.1	533.6	520.5	514.6	516.9
57.5°	502.7	495.6	481.3	474.2	477.7
60°	462.3	454.0	439.7	436.1	440.9
62.5°	423.1	413.6	399.3	396.9	400.5
65°	379.1	370.8	355.3	357.7	356.5
67.5°	338.7	329.2	316.1	310.2	306.6
70°	293.5	285.2	275.7	259.1	251.9
72.5°	249.6	242.4	232.9	210.3	205.6
75°	205.6	198.5	187.8	169.9	167.6
77.5°	164.0	159.2	143.8	143.8	149.7
80°	123.6	121.2	111.7	124.8	130.7
82.5°	83.2	80.8	90.3	95.1	93.9
85°	49.9	51.1	55.9	55.9	55.9
87.5°	21.4	23.8	25.0	25.0	26.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)