

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: P183144

Luminaire Tested: **12EN-LD2-27-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183144
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-L830-CD1-U
Description: METALUX ENCOUNTER 1X2 TROFFER

Light Source: EATON LED 3000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2706.3 lumens
Efficiency: N/A
Efficacy: 112.8 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

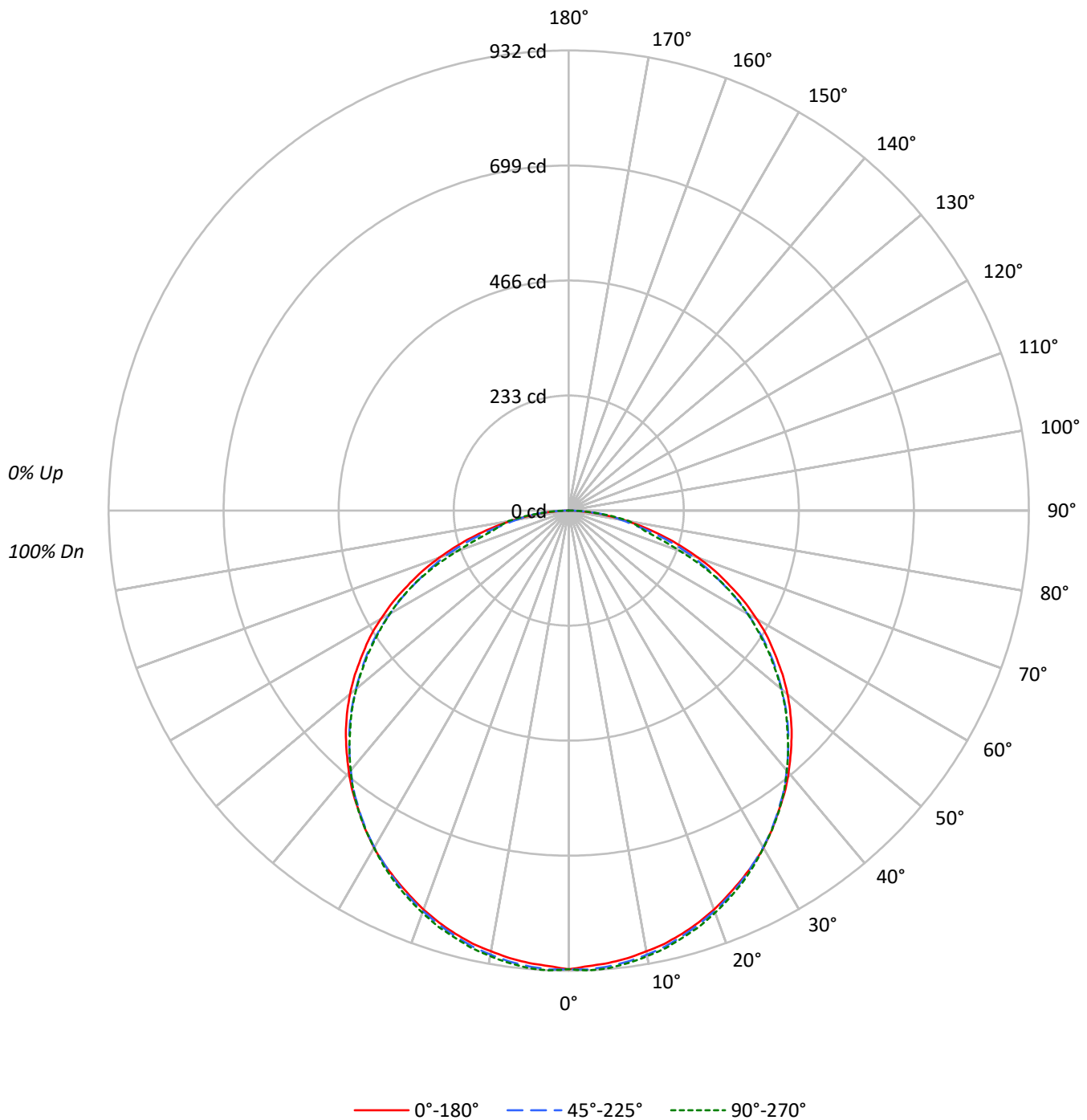
Input Watts (W): 24
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5692	5692	5692
5°	5657	5699	5720
10°	5639	5680	5702
15°	5627	5656	5677
20°	5607	5629	5651
25°	5584	5600	5623
30°	5580	5572	5580
35°	5545	5536	5553
40°	5541	5495	5495
45°	5532	5444	5425
50°	5515	5364	5354
55°	5456	5287	5251
60°	5386	5123	5138
65°	5226	4898	4914
70°	4999	4697	4292
75°	4628	4228	3771
80°	4146	3747	4385
85°	3339	3733	3733



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.9	3.2
10°-20°	251.6	9.3
20°-30°	381.9	14.1
30°-40°	463.7	17.1
40°-50°	486.1	18.0
50°-60°	444.6	16.4
60°-70°	340.5	12.6
70°-80°	191.1	7.1
80°-90°	58.9	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°	721.4	26.7
0°-40°	1185.1	43.8
0°-60°	2115.8	78.2
0°-90°	2706.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2706.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	929	929	929	929	929	
5°	920	922	927	929	930	87
15°	887	888	892	894	895	250
25°	826	826	828	830	832	381
35°	741	741	740	740	742	465
45°	638	635	628	626	626	492
55°	511	507	495	489	492	457
65°	360	353	338	340	339	357
75°	196	189	179	162	159	208
85°	48	49	53	53	53	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	929.0	929.0	929.0	929.0	929.0
2.5°	923.3	925.6	930.1	932.3	932.3
5°	919.9	922.2	926.7	929.0	930.1
7.5°	914.3	916.5	921.0	924.4	924.4
10°	906.4	908.6	913.1	916.5	916.5
12.5°	898.4	899.6	904.1	906.4	907.5
15°	887.1	888.3	891.7	893.9	895.1
17.5°	874.7	874.7	878.1	880.4	882.6
20°	860.0	861.1	863.4	865.7	866.8
22.5°	843.1	844.2	846.5	848.7	849.8
25°	826.1	826.1	828.4	829.5	831.8
27.5°	808.0	808.0	808.0	809.2	811.4
30°	788.8	787.7	787.7	786.6	788.8
32.5°	766.2	766.2	765.1	764.0	766.2
35°	741.4	741.4	740.2	740.2	742.5
37.5°	718.8	717.6	715.4	713.1	716.5
40°	692.8	691.6	687.1	684.9	687.1
42.5°	665.6	663.4	657.7	655.5	657.7
45°	638.5	635.1	628.3	626.1	626.1
47.5°	609.1	605.7	596.7	593.3	595.6
50°	578.6	574.1	562.8	560.5	561.7
52.5°	545.8	540.2	528.9	526.6	526.6
55°	510.8	507.4	495.0	489.3	491.6
57.5°	478.0	471.3	457.7	450.9	454.3
60°	439.6	431.7	418.1	414.8	419.3
62.5°	402.3	393.3	379.7	377.5	380.8
65°	360.5	352.6	337.9	340.2	339.0
67.5°	322.1	313.0	300.6	295.0	291.6
70°	279.1	271.2	262.2	246.4	239.6
72.5°	237.3	230.5	221.5	200.0	195.5
75°	195.5	188.7	178.6	161.6	159.3
77.5°	156.0	151.4	136.7	136.7	142.4
80°	117.5	115.3	106.2	118.7	124.3
82.5°	79.1	76.8	85.9	90.4	89.3
85°	47.5	48.6	53.1	53.1	53.1
87.5°	20.3	22.6	23.7	23.7	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)