

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: P183147

Luminaire Tested: **12EN-LD2-27-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183147
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-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: 3096.9 lumens
Efficiency: N/A
Efficacy: 129.0 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

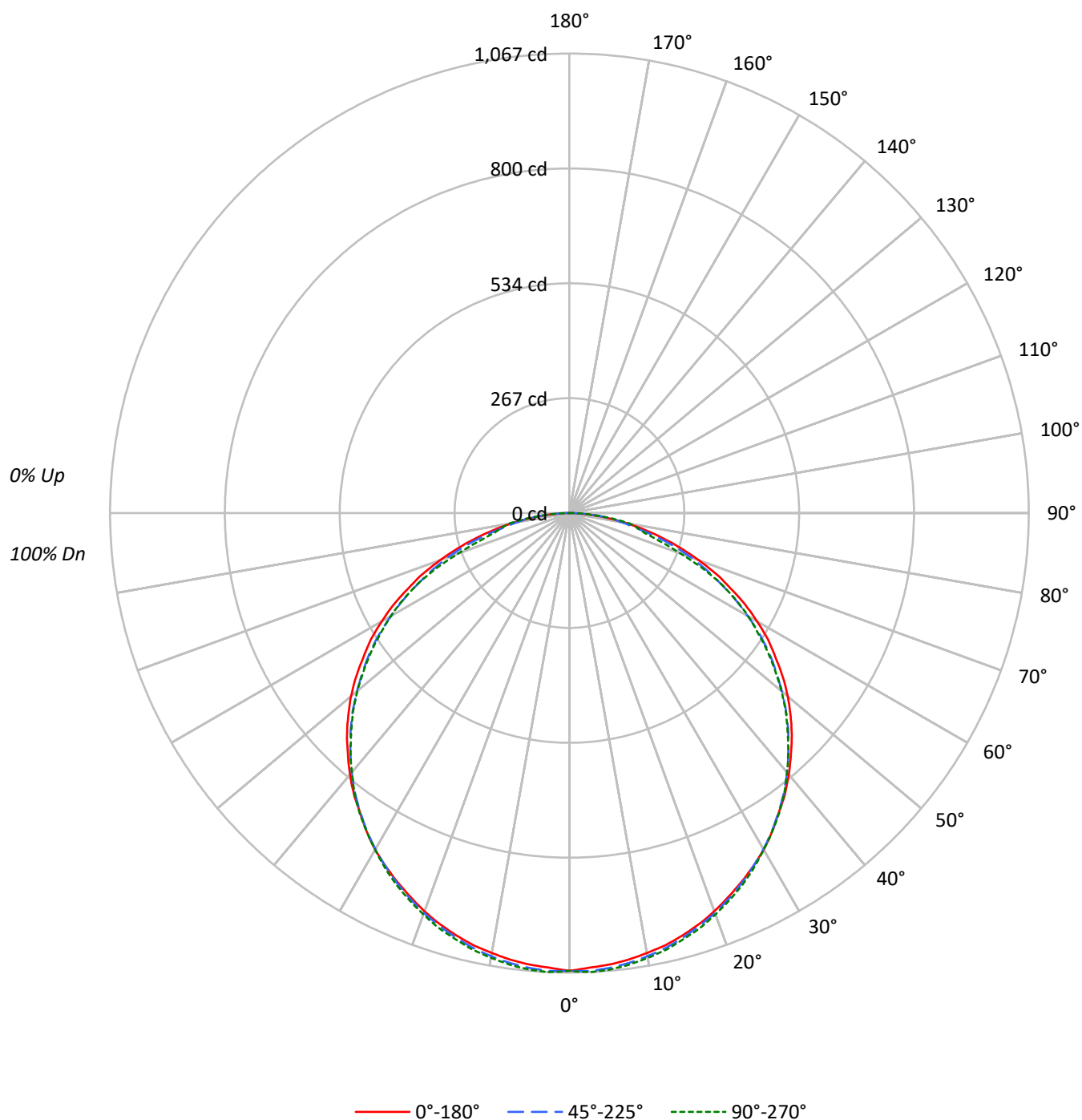
Input Watts (W): 24
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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°	6512	6512	6512
5°	6474	6521	6545
10°	6452	6500	6525
15°	6439	6472	6496
20°	6416	6441	6467
25°	6390	6408	6434
30°	6386	6377	6386
35°	6345	6336	6355
40°	6340	6288	6288
45°	6331	6230	6207
50°	6311	6138	6126
55°	6243	6050	6009
60°	6164	5863	5879
65°	5980	5606	5625
70°	5721	5374	4912
75°	5295	4836	4315
80°	4745	4290	5020
85°	3817	4274	4274



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.6	3.2
10°-20°	287.9	9.3
20°-30°	437.0	14.1
30°-40°	530.6	17.1
40°-50°	556.2	18.0
50°-60°	508.8	16.4
60°-70°	389.6	12.6
70°-80°	218.7	7.1
80°-90°	67.4	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°	825.5	26.7
0°-40°	1356.2	43.8
0°-60°	2421.2	78.2
0°-90°	3096.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3096.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1063	1063	1063	1063	1063	
5°	1053	1055	1060	1063	1064	100
15°	1015	1016	1020	1023	1024	287
25°	945	945	948	949	952	436
35°	848	848	847	847	850	532
45°	731	727	719	716	716	563
55°	584	581	566	560	563	523
65°	412	404	387	389	388	409
75°	224	216	204	185	182	238
85°	54	56	61	61	61	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1063.0	1063.0	1063.0	1063.0	1063.0
2.5°	1056.6	1059.2	1064.3	1066.9	1066.9
5°	1052.7	1055.3	1060.4	1063.0	1064.3
7.5°	1046.2	1048.8	1054.0	1057.9	1057.9
10°	1037.2	1039.8	1044.9	1048.8	1048.8
12.5°	1028.1	1029.4	1034.6	1037.2	1038.5
15°	1015.2	1016.5	1020.4	1022.9	1024.2
17.5°	1001.0	1001.0	1004.8	1007.4	1010.0
20°	984.1	985.4	988.0	990.6	991.9
22.5°	964.7	966.0	968.6	971.2	972.5
25°	945.3	945.3	947.9	949.2	951.8
27.5°	924.7	924.7	924.7	926.0	928.5
30°	902.7	901.4	901.4	900.1	902.7
32.5°	876.8	876.8	875.5	874.2	876.8
35°	848.4	848.4	847.1	847.1	849.7
37.5°	822.5	821.2	818.6	816.0	819.9
40°	792.7	791.5	786.3	783.7	786.3
42.5°	761.7	759.1	752.7	750.1	752.7
45°	730.7	726.8	719.0	716.4	716.4
47.5°	697.0	693.2	682.8	678.9	681.5
50°	662.1	657.0	644.0	641.4	642.7
52.5°	624.6	618.2	605.2	602.6	602.6
55°	584.5	580.7	566.4	560.0	562.6
57.5°	547.0	539.3	523.8	516.0	519.9
60°	503.1	494.0	478.5	474.6	479.8
62.5°	460.4	450.0	434.5	431.9	435.8
65°	412.5	403.5	386.7	389.3	388.0
67.5°	368.6	358.2	344.0	337.5	333.7
70°	319.4	310.4	300.0	281.9	274.2
72.5°	271.6	263.8	253.5	228.9	223.7
75°	223.7	216.0	204.3	184.9	182.3
77.5°	178.5	173.3	156.5	156.5	162.9
80°	134.5	131.9	121.6	135.8	142.3
82.5°	90.5	87.9	98.3	103.5	102.2
85°	54.3	55.6	60.8	60.8	60.8
87.5°	23.3	25.9	27.2	27.2	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)