

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: P183155

Luminaire Tested: **12EN-LD2-35-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183155
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-LD2-35-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: 3560.0 lumens
Efficiency: N/A
Efficacy: 113.4 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

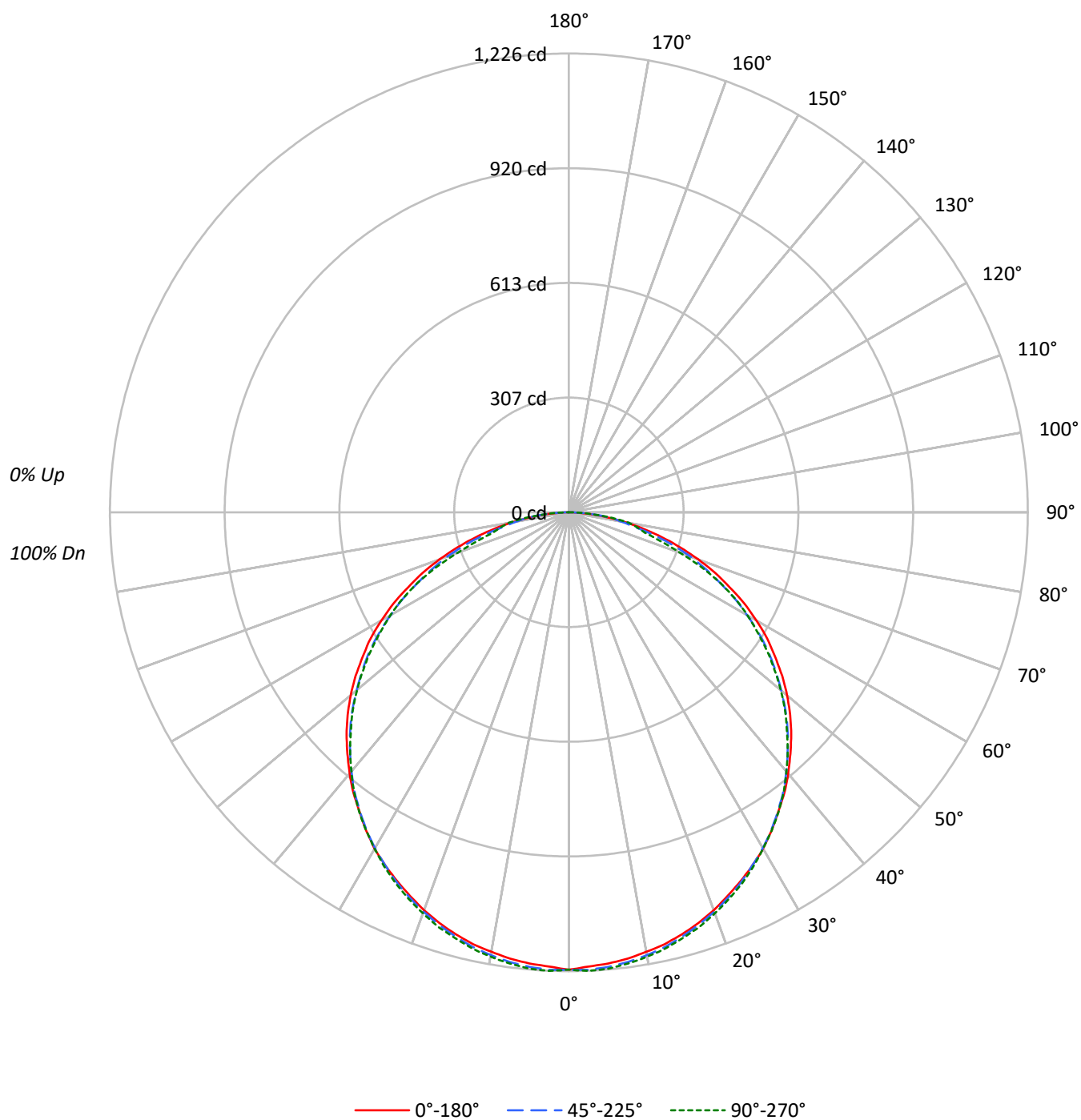
Input Watts (W): 31.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	7487	7487	7487
5°	7442	7497	7524
10°	7417	7473	7500
15°	7402	7439	7468
20°	7376	7405	7434
25°	7346	7366	7396
30°	7341	7330	7341
35°	7294	7282	7305
40°	7288	7229	7229
45°	7277	7162	7136
50°	7254	7056	7042
55°	7177	6955	6908
60°	7086	6739	6758
65°	6874	6444	6465
70°	6578	6178	5646
75°	6088	5560	4961
80°	5454	4929	5768
85°	4386	4914	4914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	3.2
10°-20°	331.0	9.3
20°-30°	502.3	14.1
30°-40°	610.0	17.1
40°-50°	639.4	18.0
50°-60°	584.9	16.4
60°-70°	447.9	12.6
70°-80°	251.4	7.1
80°-90°	77.4	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°	949.0	26.7
0°-40°	1559.0	43.8
0°-60°	2783.3	78.2
0°-90°	3560.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3560.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1222	1222	1222	1222	1222	
5°	1210	1213	1219	1222	1224	115
15°	1167	1168	1173	1176	1177	329
25°	1087	1087	1090	1091	1094	501
35°	975	975	974	974	977	611
45°	840	836	827	824	824	648
55°	672	668	651	644	647	601
65°	474	464	444	448	446	470
75°	257	248	235	213	210	273
85°	62	64	70	70	70	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1222.0	1222.0	1222.0	1222.0	1222.0
2.5°	1214.6	1217.5	1223.5	1226.5	1226.5
5°	1210.1	1213.1	1219.0	1222.0	1223.5
7.5°	1202.7	1205.6	1211.6	1216.0	1216.0
10°	1192.3	1195.2	1201.2	1205.6	1205.6
12.5°	1181.9	1183.3	1189.3	1192.3	1193.7
15°	1167.0	1168.5	1172.9	1175.9	1177.4
17.5°	1150.6	1150.6	1155.1	1158.1	1161.0
20°	1131.3	1132.8	1135.8	1138.7	1140.2
22.5°	1109.0	1110.5	1113.5	1116.4	1117.9
25°	1086.7	1086.7	1089.7	1091.2	1094.1
27.5°	1062.9	1062.9	1062.9	1064.4	1067.4
30°	1037.7	1036.2	1036.2	1034.7	1037.7
32.5°	1007.9	1007.9	1006.4	1005.0	1007.9
35°	975.2	975.2	973.7	973.7	976.7
37.5°	945.5	944.0	941.0	938.1	942.5
40°	911.3	909.8	903.9	900.9	903.9
42.5°	875.6	872.6	865.2	862.2	865.2
45°	839.9	835.5	826.6	823.6	823.6
47.5°	801.3	796.8	784.9	780.5	783.4
50°	761.1	755.2	740.3	737.4	738.8
52.5°	718.0	710.6	695.7	692.8	692.8
55°	671.9	667.5	651.1	643.7	646.7
57.5°	628.8	619.9	602.1	593.2	597.6
60°	578.3	567.9	550.0	545.6	551.5
62.5°	529.2	517.3	499.5	496.5	501.0
65°	474.2	463.8	444.5	447.5	446.0
67.5°	423.7	411.8	395.4	388.0	383.5
70°	367.2	356.8	344.9	324.1	315.2
72.5°	312.2	303.3	291.4	263.1	257.2
75°	257.2	248.3	234.9	212.6	209.6
77.5°	205.2	199.2	179.9	179.9	187.3
80°	154.6	151.6	139.7	156.1	163.5
82.5°	104.1	101.1	113.0	118.9	117.4
85°	62.4	63.9	69.9	69.9	69.9
87.5°	26.8	29.7	31.2	31.2	32.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)