

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: P183156

Luminaire Tested: **12EN-LD2-35-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183156
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-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: 3631.2 lumens
Efficiency: N/A
Efficacy: 115.6 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

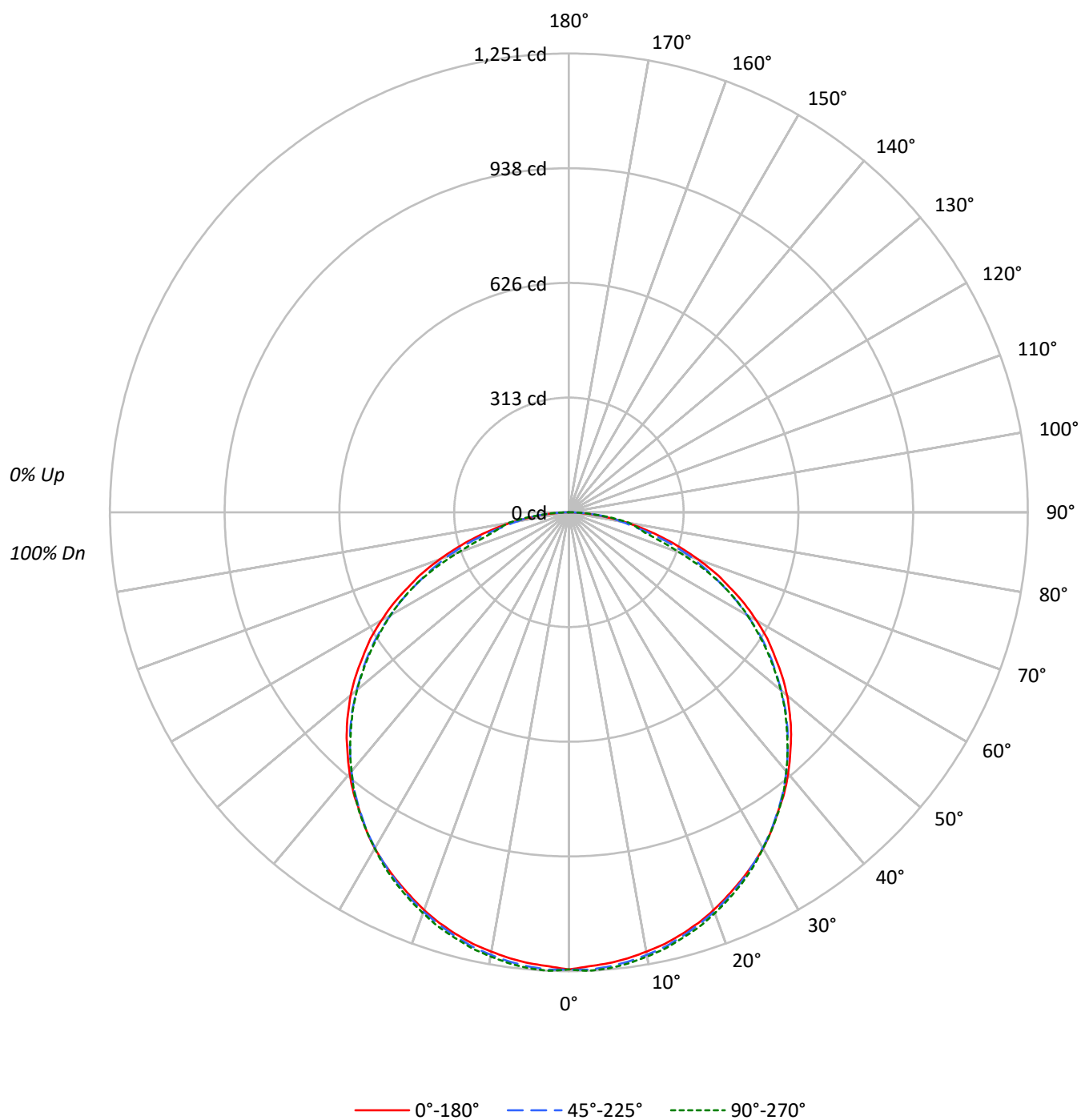
Input Watts (W): 31.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20				
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°	7636	7636	7636
5°	7591	7647	7675
10°	7565	7622	7651
15°	7550	7588	7617
20°	7523	7553	7582
25°	7493	7514	7544
30°	7487	7477	7487
35°	7439	7428	7451
40°	7434	7373	7373
45°	7423	7305	7279
50°	7400	7197	7183
55°	7321	7094	7045
60°	7228	6874	6894
65°	7012	6573	6594
70°	6708	6302	5759
75°	6209	5672	5061
80°	5564	5028	5885
85°	4478	5012	5012



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.0	3.2
10°-20°	337.6	9.3
20°-30°	512.4	14.1
30°-40°	622.2	17.1
40°-50°	652.2	18.0
50°-60°	596.6	16.4
60°-70°	456.8	12.6
70°-80°	256.4	7.1
80°-90°	79.0	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°	968.0	26.7
0°-40°	1590.1	43.8
0°-60°	2838.9	78.2
0°-90°	3631.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3631.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1246	1246	1246	1246	1246	
5°	1234	1237	1243	1246	1248	117
15°	1190	1192	1196	1199	1201	336
25°	1108	1108	1112	1113	1116	511
35°	995	995	993	993	996	624
45°	857	852	843	840	840	661
55°	685	681	664	657	660	613
65°	484	473	453	456	455	480
75°	262	253	240	217	214	278
85°	64	65	71	71	71	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1246.4	1246.4	1246.4	1246.4	1246.4
2.5°	1238.9	1241.9	1248.0	1251.0	1251.0
5°	1234.3	1237.3	1243.4	1246.4	1248.0
7.5°	1226.7	1229.8	1235.8	1240.4	1240.4
10°	1216.1	1219.1	1225.2	1229.8	1229.8
12.5°	1205.5	1207.0	1213.1	1216.1	1217.6
15°	1190.3	1191.8	1196.4	1199.4	1200.9
17.5°	1173.7	1173.7	1178.2	1181.2	1184.3
20°	1153.9	1155.5	1158.5	1161.5	1163.0
22.5°	1131.2	1132.7	1135.7	1138.8	1140.3
25°	1108.4	1108.4	1111.5	1113.0	1116.0
27.5°	1084.2	1084.2	1084.2	1085.7	1088.7
30°	1058.4	1056.9	1056.9	1055.4	1058.4
32.5°	1028.1	1028.1	1026.6	1025.0	1028.1
35°	994.7	994.7	993.2	993.2	996.2
37.5°	964.4	962.9	959.8	956.8	961.4
40°	929.5	928.0	921.9	918.9	921.9
42.5°	893.1	890.1	882.5	879.5	882.5
45°	856.7	852.2	843.1	840.1	840.1
47.5°	817.3	812.8	800.6	796.1	799.1
50°	776.4	770.3	755.1	752.1	753.6
52.5°	732.4	724.8	709.6	706.6	706.6
55°	685.4	680.8	664.2	656.6	659.6
57.5°	641.4	632.3	614.1	605.0	609.6
60°	589.9	579.2	561.0	556.5	562.6
62.5°	539.8	527.7	509.5	506.5	511.0
65°	483.7	473.1	453.4	456.4	454.9
67.5°	432.2	420.0	403.3	395.8	391.2
70°	374.5	363.9	351.8	330.6	321.5
72.5°	318.4	309.3	297.2	268.4	262.3
75°	262.3	253.2	239.6	216.8	213.8
77.5°	209.3	203.2	183.5	183.5	191.1
80°	157.7	154.7	142.5	159.2	166.8
82.5°	106.1	103.1	115.2	121.3	119.8
85°	63.7	65.2	71.3	71.3	71.3
87.5°	27.3	30.3	31.8	31.8	33.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)