

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: P229697

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L840-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1707-178-5)
Test Lab: INNOVATION CENTER-G3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-44-RDP-UNV-L840-CD1-SVPD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (126)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3449.0 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.36
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

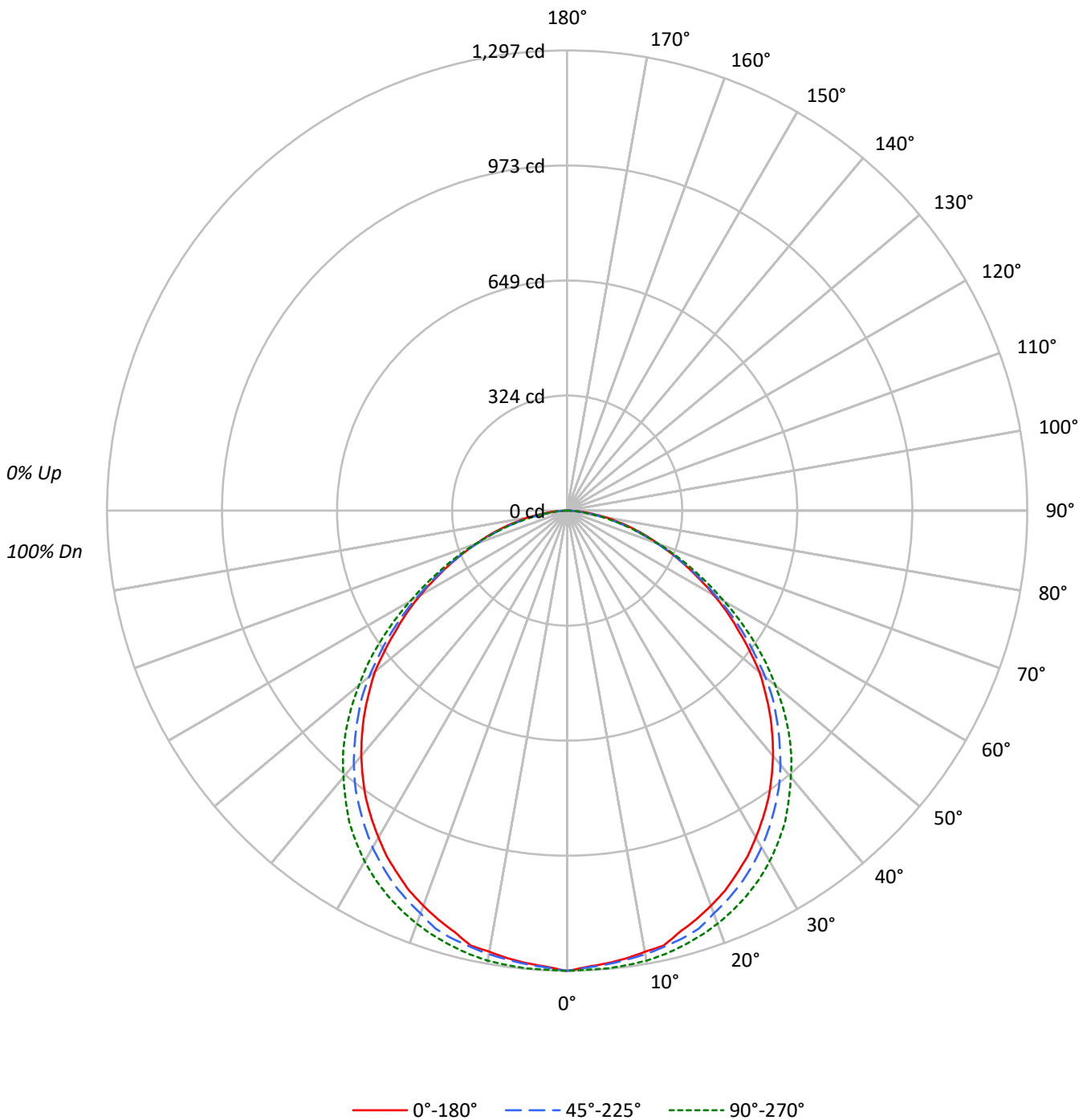
Input Watts (W): 39.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4155	4155	4155
5°	4118	4128	4164
10°	4106	4129	4189
15°	4075	4142	4207
20°	4039	4119	4223
25°	3993	4098	4231
30°	3934	4055	4221
35°	3868	3991	4187
40°	3774	3910	4102
45°	3659	3788	4000
50°	3527	3628	3816
55°	3292	3400	3587
60°	3064	3123	3273
65°	2805	2829	2945
70°	2540	2502	2569
75°	2323	2158	2183
80°	2069	1769	1712
85°	1650	1198	1051



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.3	3.5
10°-20°	352.3	10.2
20°-30°	535.4	15.5
30°-40°	640.7	18.6
40°-50°	647.1	18.8
50°-60°	545.9	15.8
60°-70°	372.7	10.8
70°-80°	189.1	5.5
80°-90°	43.6	1.3
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°	1010.0	29.3
0°-40°	1650.7	47.9
0°-60°	2843.7	82.4
0°-90°	3449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3449.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1297	1297	1297	1297	1297	
5°	1281	1281	1284	1290	1295	122
15°	1229	1234	1249	1259	1269	347
25°	1130	1140	1160	1184	1197	521
35°	989	998	1021	1052	1071	618
45°	808	812	836	869	883	622
55°	590	588	609	631	642	529
65°	370	365	373	380	389	368
75°	188	176	174	173	176	199
85°	45	39	33	30	29	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1297.3	1297.3	1297.3	1297.3	1297.3
2.5°	1287.1	1287.1	1289.2	1296.3	1295.3
5°	1281.0	1281.0	1284.1	1290.2	1295.3
7.5°	1272.9	1273.9	1276.9	1286.1	1292.2
10°	1262.7	1263.7	1269.8	1279.0	1288.1
12.5°	1255.5	1256.5	1259.6	1270.8	1280.0
15°	1229.0	1234.1	1249.4	1258.6	1268.8
17.5°	1208.6	1214.7	1235.1	1243.3	1255.5
20°	1185.1	1192.3	1208.6	1227.0	1239.2
22.5°	1160.7	1168.8	1185.1	1206.6	1219.8
25°	1130.1	1140.3	1159.6	1184.1	1197.4
27.5°	1099.5	1109.7	1129.0	1162.7	1171.9
30°	1063.8	1075.0	1096.4	1129.0	1141.3
32.5°	1027.1	1037.3	1059.7	1093.3	1107.6
35°	989.3	997.5	1020.9	1052.5	1070.9
37.5°	946.5	954.6	981.2	1011.8	1026.0
40°	902.6	908.7	935.3	965.9	981.2
42.5°	855.7	861.8	886.3	917.9	935.3
45°	807.8	811.8	836.3	869.0	883.2
47.5°	756.8	760.9	786.4	812.9	826.1
50°	707.8	705.8	728.2	752.7	766.0
52.5°	647.6	648.7	668.0	691.5	706.8
55°	589.5	588.5	608.9	631.3	642.5
57.5°	535.5	531.4	548.7	564.0	577.3
60°	478.3	474.3	487.5	503.8	511.0
62.5°	423.3	418.2	431.4	440.6	447.7
65°	370.2	365.1	373.3	380.4	388.6
67.5°	320.3	314.1	321.3	325.4	331.5
70°	271.3	266.2	267.2	272.3	274.4
72.5°	229.5	219.3	220.3	220.3	223.4
75°	187.7	176.4	174.4	173.4	176.4
77.5°	145.8	136.7	133.6	132.6	132.6
80°	112.2	100.0	95.9	92.8	92.8
82.5°	73.4	69.4	62.2	58.1	56.1
85°	44.9	38.8	32.6	29.6	28.6
87.5°	17.3	14.3	12.2	12.2	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)