

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: P229950

Luminaire Tested: **24RLN-LD5-50-RDP-UNV-L940-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1707-178-7)
Test Lab: INNOVATION CENTER-G3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-50-RDP-UNV-L940-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (252)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3618.0 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

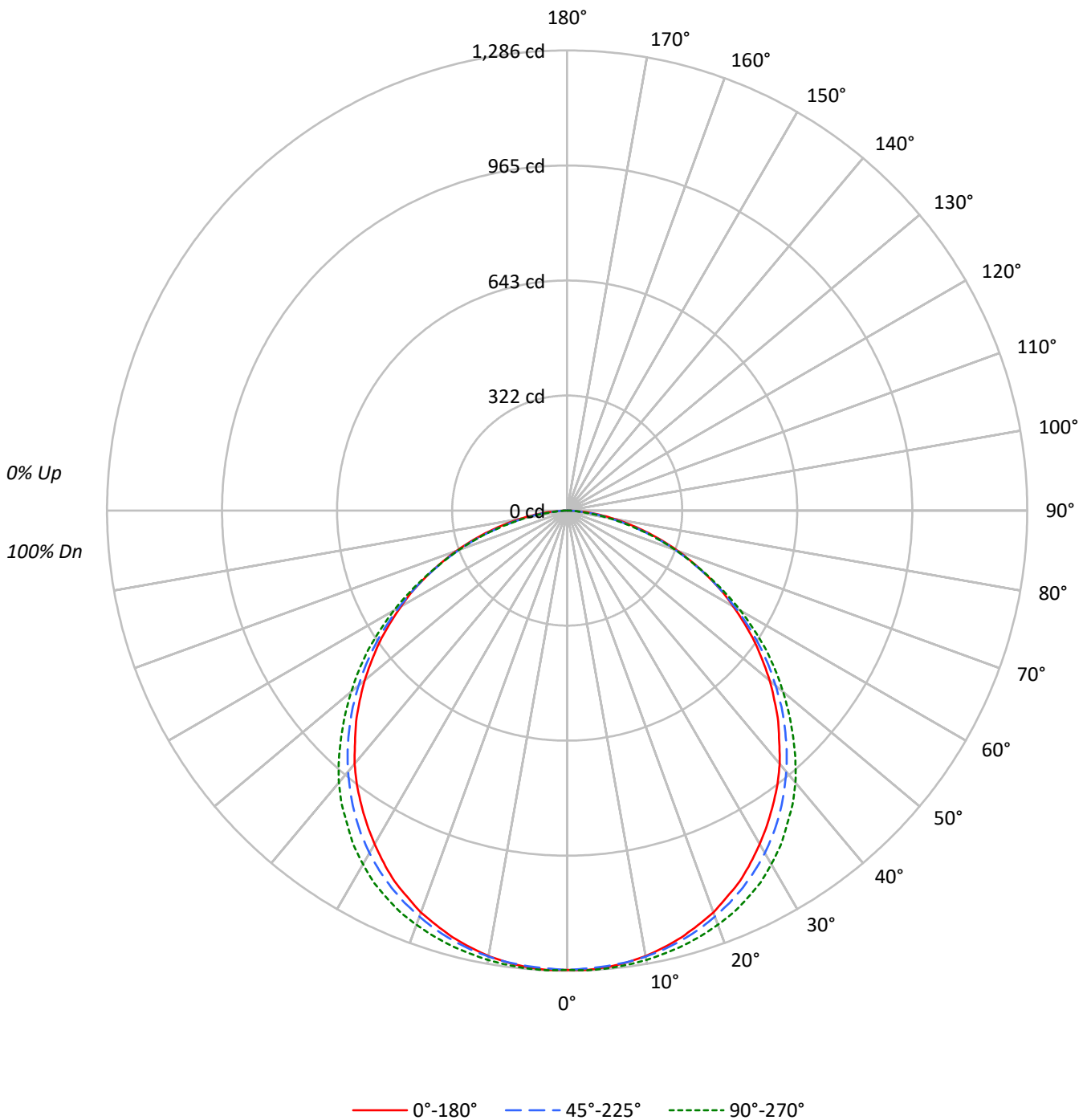
Input Watts (W): 37.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	78	71	65	76	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1966	1966	1966
5°	1969	1964	1975
10°	1966	1968	1984
15°	1958	1970	1995
20°	1947	1968	2008
25°	1931	1964	2018
30°	1904	1954	2018
35°	1876	1935	2003
40°	1847	1905	1985
45°	1807	1864	1934
50°	1761	1812	1876
55°	1708	1750	1813
60°	1643	1664	1715
65°	1566	1566	1583
70°	1473	1446	1442
75°	1343	1263	1259
80°	1170	1051	1005
85°	928	729	569



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	3.4
10°-20°	351.4	9.7
20°-30°	536.8	14.8
30°-40°	647.6	17.9
40°-50°	663.8	18.3
50°-60°	584.9	16.2
60°-70°	428.0	11.8
70°-80°	230.1	6.4
80°-90°	53.6	1.5
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	27.9
0°-40°	1657.7	45.8
0°-60°	2906.3	80.3
0°-90°	3618.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3618.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1284	1284	1284	1284	1284	
5°	1281	1279	1278	1282	1284	122
15°	1235	1236	1242	1252	1258	348
25°	1143	1146	1162	1185	1194	526
35°	1003	1008	1035	1064	1071	628
45°	834	833	861	886	893	643
55°	640	636	655	670	679	571
65°	432	425	432	438	437	429
75°	227	216	214	214	213	241
85°	53	47	42	34	32	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1283.7	1283.7	1283.7	1283.7	1283.7
2.5°	1285.2	1283.0	1280.7	1283.0	1286.0
5°	1280.7	1279.2	1277.7	1281.5	1284.5
7.5°	1273.9	1272.4	1273.2	1278.4	1280.7
10°	1264.1	1264.1	1265.6	1271.7	1275.4
12.5°	1250.5	1251.3	1255.8	1263.4	1267.1
15°	1234.7	1236.2	1242.2	1252.0	1258.1
17.5°	1215.1	1218.9	1227.2	1239.2	1246.0
20°	1194.7	1197.0	1207.5	1224.9	1231.7
22.5°	1168.3	1172.9	1186.4	1206.8	1215.8
25°	1142.7	1145.7	1162.3	1184.9	1194.0
27.5°	1110.2	1114.8	1135.1	1161.5	1171.3
30°	1076.3	1081.6	1105.0	1130.6	1141.2
32.5°	1040.9	1047.6	1071.8	1098.9	1110.2
35°	1003.1	1008.4	1034.8	1063.5	1071.0
37.5°	965.4	966.9	994.9	1022.8	1034.8
40°	924.0	925.5	952.6	979.0	992.6
42.5°	877.2	881.7	908.1	933.8	944.3
45°	834.2	833.4	860.6	885.5	893.0
47.5°	785.9	787.4	812.3	836.5	841.0
50°	739.2	738.4	760.3	781.4	787.4
52.5°	687.9	687.1	709.0	726.3	733.9
55°	639.6	635.8	655.4	670.5	678.8
57.5°	587.6	582.3	599.6	614.7	618.5
60°	536.3	530.2	543.1	554.4	559.7
62.5°	487.2	479.7	488.0	497.8	498.6
65°	432.2	424.6	432.2	437.5	436.7
67.5°	380.1	371.8	375.6	377.9	377.1
70°	328.9	317.5	322.8	321.3	322.1
72.5°	277.6	268.5	267.8	265.5	267.8
75°	227.0	216.5	213.5	213.5	212.7
77.5°	178.8	168.2	165.2	163.7	161.4
80°	132.7	124.5	119.2	118.4	113.9
82.5°	93.5	83.0	81.5	74.7	70.1
85°	52.8	46.8	41.5	33.9	32.4
87.5°	19.6	17.3	13.6	12.8	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)