

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: P229920

Luminaire Tested: **24RLN-LD5-50-RDP-UNV-L840-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229920
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-L840-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (252)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4095.0 lumens
Efficiency: N/A
Efficacy: 108.3 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

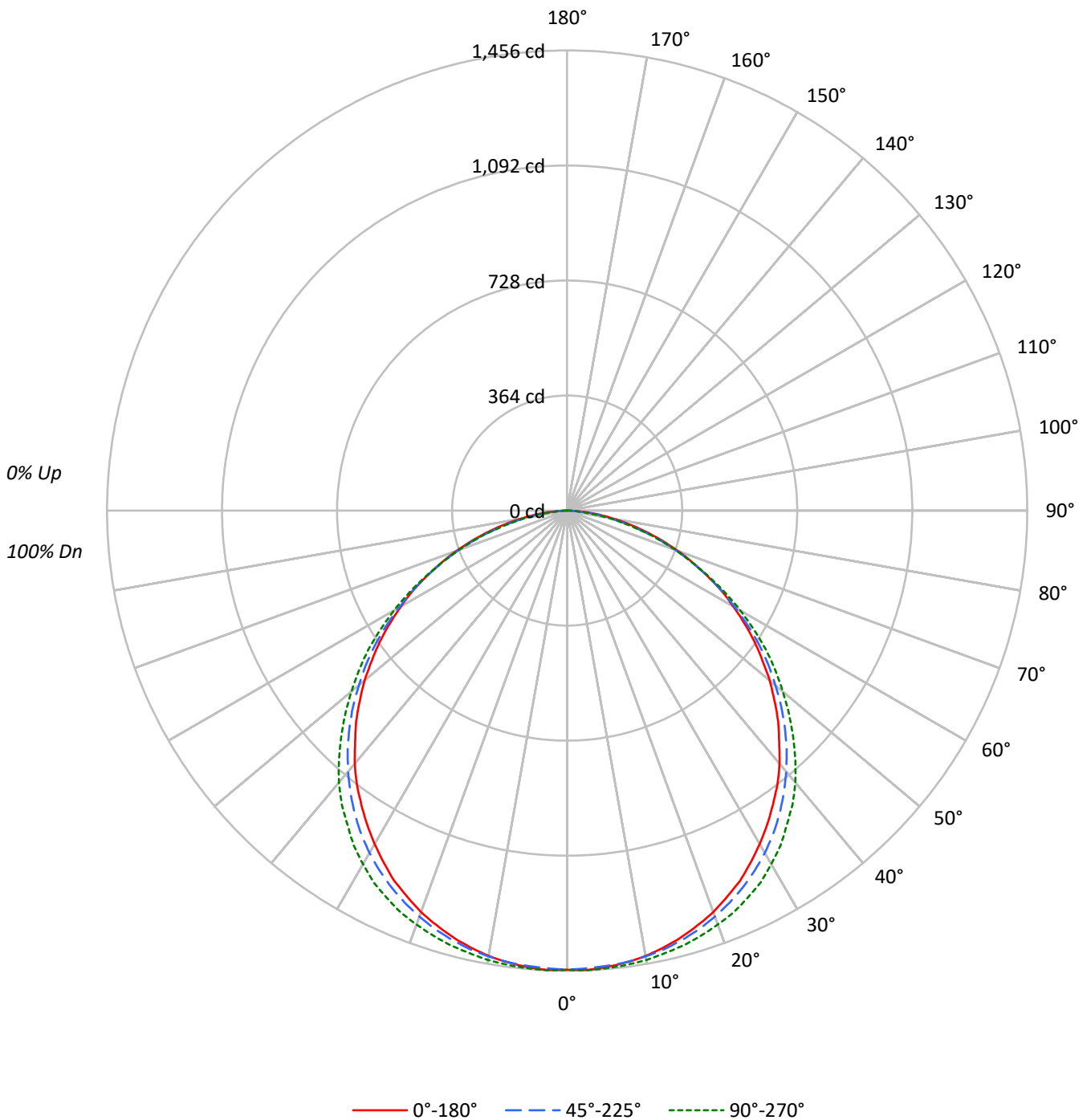
Input Watts (W): 37.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2226	2226	2226
5°	2229	2223	2235
10°	2225	2228	2245
15°	2216	2229	2258
20°	2204	2228	2272
25°	2186	2223	2284
30°	2155	2212	2284
35°	2123	2190	2267
40°	2091	2156	2246
45°	2045	2110	2189
50°	1993	2050	2124
55°	1933	1981	2052
60°	1859	1883	1940
65°	1773	1773	1791
70°	1667	1636	1632
75°	1521	1430	1424
80°	1325	1190	1137
85°	1051	826	645



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.9	3.4
10°-20°	397.7	9.7
20°-30°	607.6	14.8
30°-40°	733.0	17.9
40°-50°	751.3	18.3
50°-60°	662.0	16.2
60°-70°	484.5	11.8
70°-80°	260.4	6.4
80°-90°	60.6	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°	1143.2	27.9
0°-40°	1876.2	45.8
0°-60°	3289.5	80.3
0°-90°	4095.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4095.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1453	1453	1453	1453	1453	
5°	1450	1448	1446	1450	1454	138
15°	1398	1399	1406	1417	1424	394
25°	1293	1297	1316	1341	1351	595
35°	1135	1141	1171	1204	1212	711
45°	944	943	974	1002	1011	727
55°	724	720	742	759	768	646
65°	489	481	489	495	494	485
75°	257	245	242	242	241	273
85°	60	53	47	38	37	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1453.0	1453.0	1453.0	1453.0	1453.0
2.5°	1454.7	1452.1	1449.6	1452.1	1455.5
5°	1449.6	1447.9	1446.1	1450.4	1453.8
7.5°	1441.9	1440.2	1441.0	1447.0	1449.6
10°	1430.8	1430.8	1432.5	1439.3	1443.6
12.5°	1415.4	1416.3	1421.4	1429.9	1434.2
15°	1397.5	1399.2	1406.0	1417.1	1423.9
17.5°	1375.3	1379.6	1388.9	1402.6	1410.3
20°	1352.2	1354.8	1366.8	1386.4	1394.1
22.5°	1322.4	1327.5	1342.8	1365.9	1376.1
25°	1293.3	1296.7	1315.5	1341.1	1351.4
27.5°	1256.6	1261.7	1284.8	1314.7	1325.8
30°	1218.2	1224.2	1250.7	1279.7	1291.6
32.5°	1178.1	1185.8	1213.1	1243.8	1256.6
35°	1135.4	1141.4	1171.3	1203.7	1212.2
37.5°	1092.7	1094.4	1126.0	1157.6	1171.3
40°	1045.8	1047.5	1078.2	1108.1	1123.5
42.5°	992.8	998.0	1027.8	1056.9	1068.8
45°	944.2	943.3	974.1	1002.2	1010.8
47.5°	889.5	891.2	919.4	946.7	951.9
50°	836.6	835.8	860.5	884.4	891.2
52.5°	778.6	777.7	802.5	822.1	830.6
55°	723.9	719.7	741.9	758.9	768.3
57.5°	665.0	659.0	678.7	695.8	700.0
60°	607.0	600.1	614.7	627.5	633.4
62.5°	551.5	542.9	552.3	563.4	564.3
65°	489.2	480.6	489.2	495.1	494.3
67.5°	430.3	420.9	425.1	427.7	426.8
70°	372.2	359.4	365.4	363.7	364.5
72.5°	314.2	303.9	303.1	300.5	303.1
75°	257.0	245.0	241.6	241.6	240.7
77.5°	202.3	190.4	187.0	185.2	182.7
80°	150.2	140.9	134.9	134.0	128.9
82.5°	105.9	93.9	92.2	84.5	79.4
85°	59.8	52.9	47.0	38.4	36.7
87.5°	22.2	19.6	15.4	14.5	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)