

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: P229943

Luminaire Tested: **24RLN-LD5-67-RDP-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229943
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-LD5-67-RDP-UNV-L935-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (252)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4763.0 lumens
Efficiency: N/A
Efficacy: 88.4 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

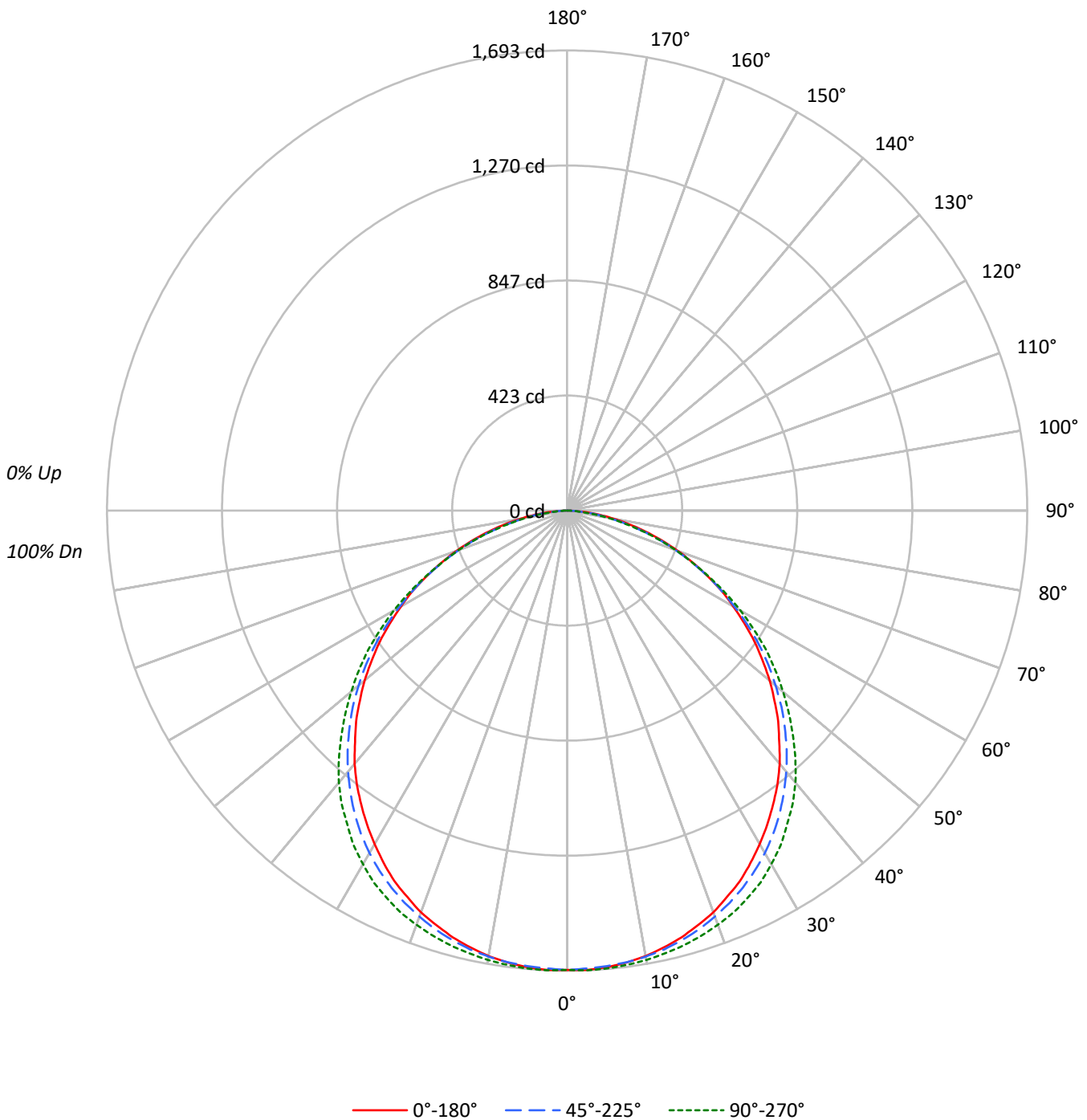
Input Watts (W): 53.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2589	2589	2589
5°	2592	2586	2600
10°	2588	2591	2611
15°	2577	2593	2626
20°	2564	2591	2643
25°	2542	2586	2656
30°	2506	2573	2657
35°	2469	2547	2636
40°	2432	2508	2613
45°	2379	2454	2546
50°	2319	2385	2470
55°	2248	2304	2386
60°	2163	2190	2257
65°	2062	2062	2084
70°	1939	1903	1899
75°	1769	1663	1657
80°	1542	1384	1322
85°	1221	960	750



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.4	3.4
10°-20°	462.6	9.7
20°-30°	706.7	14.8
30°-40°	852.6	17.9
40°-50°	873.9	18.3
50°-60°	769.9	16.2
60°-70°	563.5	11.8
70°-80°	302.8	6.4
80°-90°	70.5	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°	1329.7	27.9
0°-40°	2182.3	45.8
0°-60°	3826.1	80.3
0°-90°	4763.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4763.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1690	1690	1690	1690	1690	
5°	1686	1684	1682	1687	1691	160
15°	1625	1627	1635	1648	1656	459
25°	1504	1508	1530	1560	1572	692
35°	1321	1328	1362	1400	1410	827
45°	1098	1097	1133	1166	1176	846
55°	842	837	863	883	894	751
65°	569	559	569	576	575	564
75°	299	285	281	281	280	317
85°	70	62	55	45	43	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1690.0	1690.0	1690.0	1690.0	1690.0
2.5°	1692.0	1689.0	1686.0	1689.0	1693.0
5°	1686.0	1684.0	1682.0	1687.0	1691.0
7.5°	1677.1	1675.1	1676.1	1683.0	1686.0
10°	1664.2	1664.2	1666.2	1674.1	1679.1
12.5°	1646.3	1647.3	1653.3	1663.2	1668.1
15°	1625.4	1627.4	1635.4	1648.3	1656.2
17.5°	1599.6	1604.6	1615.5	1631.4	1640.3
20°	1572.8	1575.8	1589.7	1612.5	1621.5
22.5°	1538.1	1544.0	1561.9	1588.7	1600.6
25°	1504.3	1508.3	1530.1	1559.9	1571.8
27.5°	1461.6	1467.6	1494.4	1529.1	1542.0
30°	1416.9	1423.9	1454.7	1488.4	1502.3
32.5°	1370.3	1379.2	1411.0	1446.7	1461.6
35°	1320.6	1327.6	1362.3	1400.1	1410.0
37.5°	1271.0	1273.0	1309.7	1346.4	1362.3
40°	1216.4	1218.3	1254.1	1288.8	1306.7
42.5°	1154.8	1160.8	1195.5	1229.3	1243.2
45°	1098.2	1097.2	1132.9	1165.7	1175.6
47.5°	1034.6	1036.6	1069.4	1101.2	1107.1
50°	973.1	972.1	1000.9	1028.7	1036.6
52.5°	905.6	904.6	933.4	956.2	966.1
55°	842.0	837.1	862.9	882.7	893.6
57.5°	773.5	766.6	789.4	809.2	814.2
60°	706.0	698.0	714.9	729.8	736.8
62.5°	641.4	631.5	642.4	655.3	656.3
65°	569.0	559.0	569.0	575.9	574.9
67.5°	500.4	489.5	494.5	497.5	496.5
70°	432.9	418.0	425.0	423.0	424.0
72.5°	365.4	353.5	352.5	349.5	352.5
75°	298.9	285.0	281.0	281.0	280.0
77.5°	235.3	221.4	217.5	215.5	212.5
80°	174.8	163.8	156.9	155.9	149.9
82.5°	123.1	109.2	107.2	98.3	92.3
85°	69.5	61.6	54.6	44.7	42.7
87.5°	25.8	22.8	17.9	16.9	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)