

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: P229939

Luminaire Tested: **24RLN-LD5-45-RDP-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229939
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-LD5-45-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: 3206.0 lumens
Efficiency: N/A
Efficacy: 94.3 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

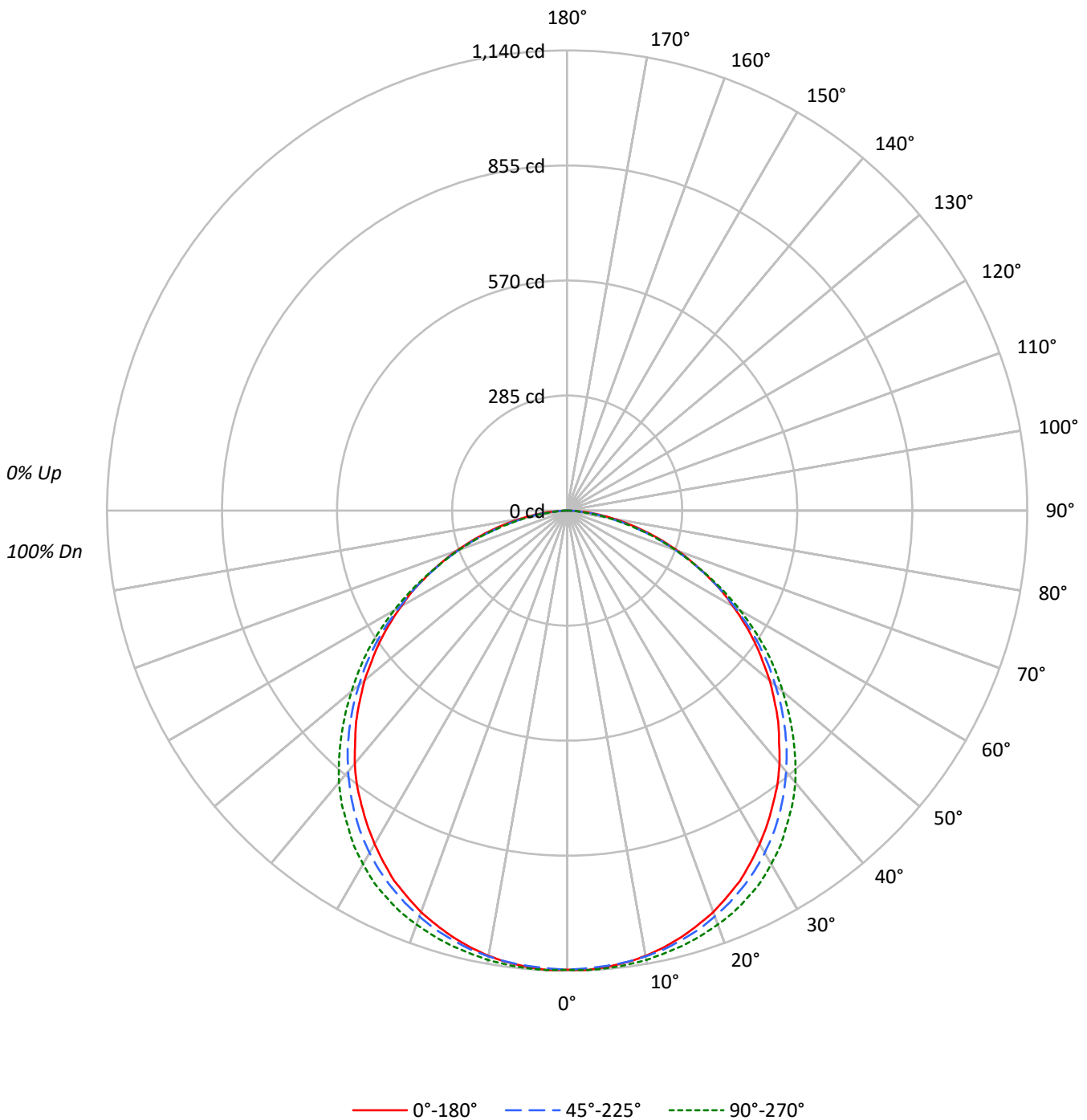
Input Watts (W): 34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1742	1742	1742
5°	1745	1741	1750
10°	1742	1744	1758
15°	1735	1746	1768
20°	1726	1744	1779
25°	1711	1741	1788
30°	1687	1732	1788
35°	1662	1715	1775
40°	1637	1688	1759
45°	1601	1652	1714
50°	1561	1605	1663
55°	1514	1551	1606
60°	1456	1474	1519
65°	1388	1388	1403
70°	1305	1281	1278
75°	1191	1119	1116
80°	1037	931	890
85°	822	647	504



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	3.4
10°-20°	311.4	9.7
20°-30°	475.7	14.8
30°-40°	573.9	17.9
40°-50°	588.2	18.3
50°-60°	518.3	16.2
60°-70°	379.3	11.8
70°-80°	203.8	6.4
80°-90°	47.5	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°	895.0	27.9
0°-40°	1468.9	45.8
0°-60°	2575.4	80.3
0°-90°	3206.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3206.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1138	1138	1138	1138	1138	
5°	1135	1134	1132	1136	1138	108
15°	1094	1095	1101	1110	1115	309
25°	1013	1015	1030	1050	1058	466
35°	889	894	917	942	949	556
45°	739	738	763	785	791	569
55°	567	563	581	594	602	506
65°	383	376	383	388	387	380
75°	201	192	189	189	188	214
85°	47	41	37	30	29	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1137.5	1137.5	1137.5	1137.5	<i>1137.5</i>
2.5°	<i>1138.9</i>	<i>1136.9</i>	<i>1134.9</i>	<i>1136.9</i>	<i>1139.5</i>
5°	1134.9	1133.5	1132.2	1135.5	<i>1138.2</i>
7.5°	1128.9	1127.5	1128.2	1132.9	<i>1134.9</i>
10°	1120.2	1120.2	1121.5	1126.8	<i>1130.2</i>
12.5°	1108.1	1108.8	1112.8	1119.5	<i>1122.8</i>
15°	1094.1	1095.4	1100.8	1109.5	<i>1114.8</i>
17.5°	1076.7	1080.1	1087.4	1098.1	<i>1104.1</i>
20°	1058.7	1060.7	1070.0	1085.4	<i>1091.4</i>
22.5°	1035.3	1039.3	1051.3	1069.4	<i>1077.4</i>
25°	1012.6	1015.2	1029.9	1050.0	<i>1058.0</i>
27.5°	983.8	987.8	1005.9	1029.3	<i>1038.0</i>
30°	953.7	958.4	979.1	1001.9	<i>1011.2</i>
32.5°	922.3	928.3	949.7	973.8	<i>983.8</i>
35°	888.9	893.6	917.0	942.4	<i>949.1</i>
37.5°	855.5	856.8	881.6	906.3	<i>917.0</i>
40°	818.7	820.1	844.1	867.5	<i>879.6</i>
42.5°	777.3	781.3	804.7	827.4	<i>836.8</i>
45°	739.2	738.5	762.6	784.6	<i>791.3</i>
47.5°	696.4	697.8	719.8	741.2	<i>745.2</i>
50°	655.0	654.3	673.7	692.4	<i>697.8</i>
52.5°	609.5	608.9	628.3	643.6	<i>650.3</i>
55°	566.8	563.4	580.8	594.2	<i>601.5</i>
57.5°	520.6	516.0	531.3	544.7	<i>548.1</i>
60°	475.2	469.9	481.2	491.2	<i>495.9</i>
62.5°	431.8	425.1	432.4	441.1	<i>441.8</i>
65°	383.0	376.3	383.0	387.6	<i>387.0</i>
67.5°	336.9	329.5	332.8	334.8	<i>334.2</i>
70°	291.4	281.4	286.1	284.7	<i>285.4</i>
72.5°	246.0	237.9	237.3	235.3	<i>237.3</i>
75°	201.2	191.8	189.1	189.1	<i>188.5</i>
77.5°	158.4	149.0	146.4	145.0	<i>143.0</i>
80°	117.6	110.3	105.6	104.9	<i>100.9</i>
82.5°	82.9	73.5	72.2	66.2	<i>62.2</i>
85°	46.8	41.4	36.8	30.1	<i>28.7</i>
87.5°	17.4	15.4	12.0	11.4	<i>10.7</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)