

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: P229938

Luminaire Tested: **24RLN-LD5-42-RDP-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229938
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-LD5-42-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: 2967.0 lumens
Efficiency: N/A
Efficacy: 95.1 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

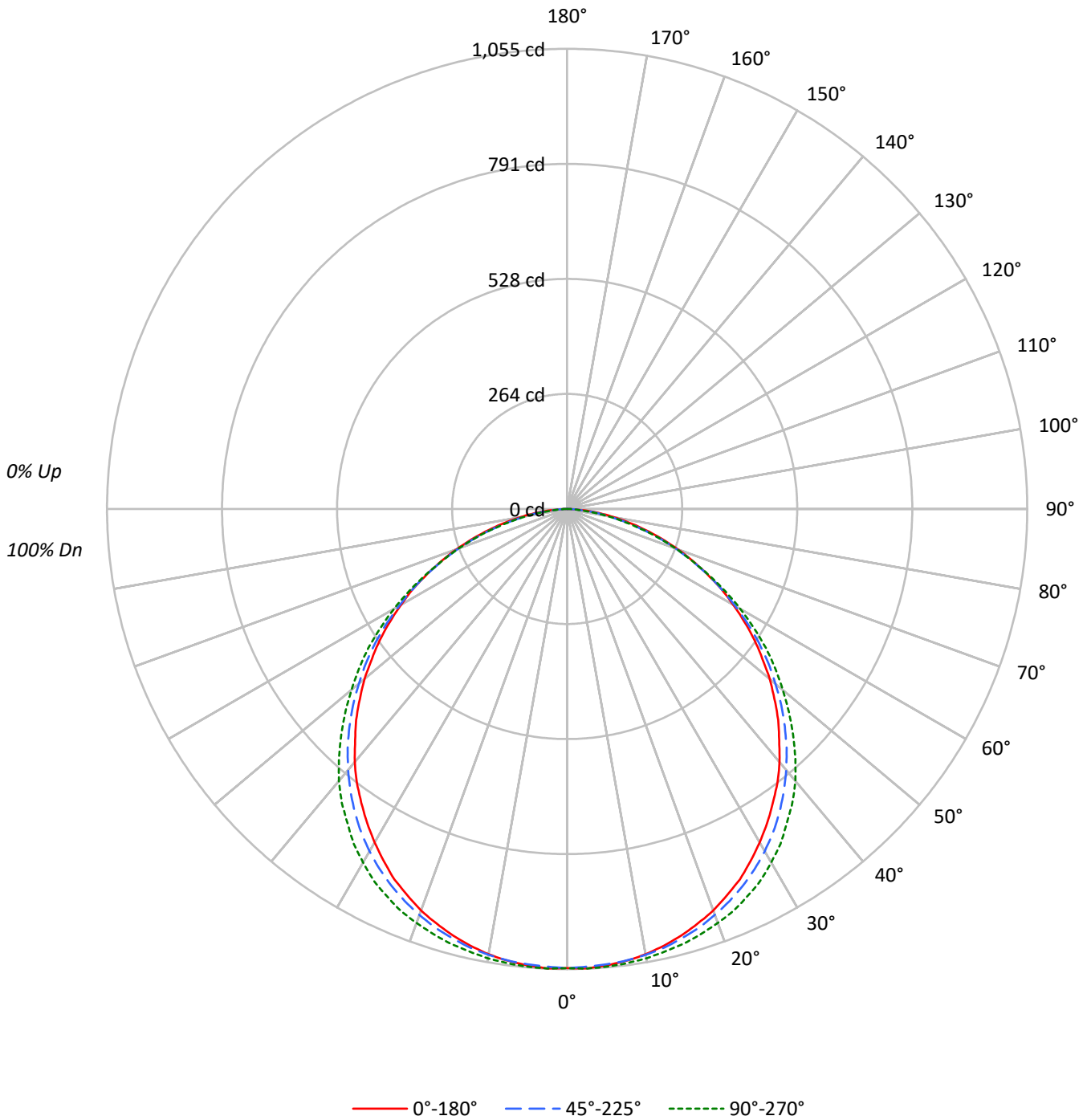
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1612	1612	1612
5°	1615	1611	1620
10°	1612	1614	1627
15°	1606	1615	1636
20°	1597	1614	1646
25°	1584	1611	1655
30°	1561	1603	1655
35°	1538	1587	1642
40°	1515	1562	1628
45°	1482	1529	1586
50°	1444	1486	1539
55°	1401	1435	1487
60°	1347	1364	1406
65°	1284	1284	1298
70°	1208	1185	1183
75°	1102	1036	1032
80°	961	862	824
85°	761	598	467



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	3.4
10°-20°	288.1	9.7
20°-30°	440.3	14.8
30°-40°	531.1	17.9
40°-50°	544.4	18.3
50°-60°	479.6	16.2
60°-70°	351.0	11.8
70°-80°	188.6	6.4
80°-90°	43.9	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°	828.3	27.9
0°-40°	1359.4	45.8
0°-60°	2383.4	80.3
0°-90°	2967.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2967.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1053	1053	1053	1053	1053	
5°	1050	1049	1048	1051	1053	100
15°	1012	1014	1019	1027	1032	286
25°	937	940	953	972	979	431
35°	823	827	849	872	878	515
45°	684	684	706	726	732	527
55°	524	521	538	550	557	468
65°	354	348	354	359	358	351
75°	186	178	175	175	174	198
85°	43	38	34	28	27	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1052.7	1052.7	1052.7	1052.7	1052.7
2.5°	1054.0	1052.1	1050.3	1052.1	1054.6
5°	1050.3	1049.0	1047.8	1050.9	1053.4
7.5°	1044.7	1043.5	1044.1	1048.4	1050.3
10°	1036.7	1036.7	1037.9	1042.8	1045.9
12.5°	1025.5	1026.1	1029.9	1036.0	1039.1
15°	1012.5	1013.8	1018.7	1026.8	1031.7
17.5°	996.5	999.5	1006.4	1016.2	1021.8
20°	979.8	981.6	990.3	1004.5	1010.1
22.5°	958.1	961.8	973.0	989.7	997.1
25°	937.1	939.5	953.2	971.7	979.1
27.5°	910.5	914.2	930.9	952.5	960.6
30°	882.6	887.0	906.1	927.2	935.8
32.5°	853.6	859.1	878.9	901.2	910.5
35°	822.6	827.0	848.6	872.1	878.3
37.5°	791.7	793.0	815.8	838.7	848.6
40°	757.7	758.9	781.2	802.9	814.0
42.5°	719.4	723.1	744.7	765.7	774.4
45°	684.1	683.5	705.7	726.2	732.3
47.5°	644.5	645.7	666.2	686.0	689.7
50°	606.2	605.5	623.5	640.8	645.7
52.5°	564.1	563.5	581.4	595.6	601.8
55°	524.5	521.4	537.5	549.9	556.7
57.5°	481.8	477.5	491.7	504.1	507.2
60°	439.8	434.8	445.3	454.6	459.0
62.5°	399.6	393.4	400.2	408.2	408.8
65°	354.4	348.2	354.4	358.7	358.1
67.5°	311.7	304.9	308.0	309.9	309.3
70°	269.7	260.4	264.7	263.5	264.1
72.5°	227.6	220.2	219.6	217.7	219.6
75°	186.2	177.5	175.0	175.0	174.4
77.5°	146.6	137.9	135.5	134.2	132.4
80°	108.9	102.1	97.7	97.1	93.4
82.5°	76.7	68.0	66.8	61.2	57.5
85°	43.3	38.3	34.0	27.8	26.6
87.5°	16.1	14.2	11.1	10.5	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)