

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: P229928

Luminaire Tested: **24RLN-LD5-42-RDP-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229928
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-L930-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (252)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2861.0 lumens
Efficiency: N/A
Efficacy: 91.7 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

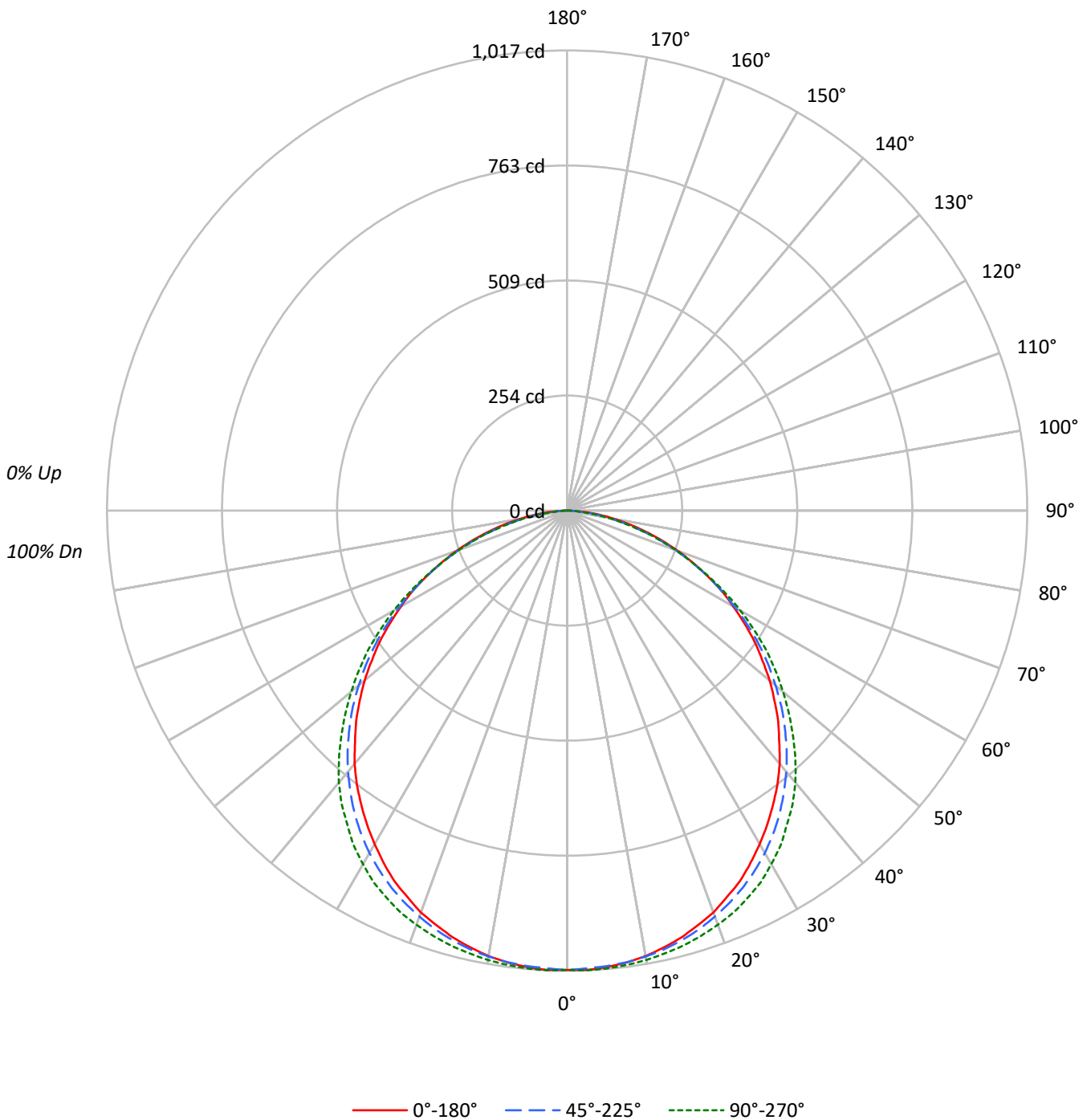
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1555	1555	1555
5°	1557	1554	1562
10°	1555	1557	1569
15°	1548	1558	1578
20°	1540	1556	1588
25°	1527	1553	1596
30°	1505	1545	1596
35°	1483	1530	1584
40°	1461	1506	1569
45°	1429	1474	1530
50°	1393	1433	1484
55°	1351	1384	1433
60°	1299	1315	1356
65°	1239	1239	1251
70°	1164	1143	1141
75°	1062	999	995
80°	926	831	795
85°	735	576	450



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.3	3.4
10°-20°	277.8	9.7
20°-30°	424.5	14.8
30°-40°	512.1	17.9
40°-50°	524.9	18.3
50°-60°	462.5	16.2
60°-70°	338.5	11.8
70°-80°	181.9	6.4
80°-90°	42.3	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°	798.7	27.9
0°-40°	1310.8	45.8
0°-60°	2298.3	80.3
0°-90°	2861.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2861.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1015	1015	1015	1015	1015	
5°	1013	1012	1010	1013	1016	96
15°	976	978	982	990	995	275
25°	904	906	919	937	944	416
35°	793	797	818	841	847	496
45°	660	659	680	700	706	508
55°	506	503	518	530	537	451
65°	342	336	342	346	345	339
75°	180	171	169	169	168	191
85°	42	37	33	27	26	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1015.1	1015.1	1015.1	1015.1	1015.1
2.5°	1016.3	1014.5	1012.7	1014.5	1016.9
5°	1012.7	1011.6	1010.4	1013.3	1015.7
7.5°	1007.4	1006.2	1006.8	1011.0	1012.7
10°	999.6	999.6	1000.8	1005.6	1008.6
12.5°	988.9	989.5	993.1	999.0	1002.0
15°	976.4	977.6	982.3	990.1	994.9
17.5°	960.9	963.8	970.4	979.9	985.3
20°	944.8	946.5	954.9	968.6	974.0
22.5°	923.9	927.5	938.2	954.3	961.5
25°	903.6	906.0	919.1	937.0	944.2
27.5°	878.0	881.5	897.6	918.5	926.3
30°	851.1	855.3	873.8	894.1	902.4
32.5°	823.1	828.4	847.5	869.0	878.0
35°	793.3	797.4	818.3	841.0	846.9
37.5°	763.4	764.6	786.7	808.8	818.3
40°	730.6	731.8	753.3	774.2	784.9
42.5°	693.7	697.2	718.1	738.4	746.7
45°	659.7	659.1	680.5	700.2	706.2
47.5°	621.5	622.7	642.4	661.4	665.0
50°	584.5	583.9	601.2	617.9	622.7
52.5°	543.9	543.4	560.6	574.4	580.3
55°	505.8	502.8	518.3	530.2	536.8
57.5°	464.6	460.4	474.2	486.1	489.1
60°	424.1	419.3	429.4	438.4	442.6
62.5°	385.3	379.3	385.9	393.6	394.2
65°	341.8	335.8	341.8	345.9	345.3
67.5°	300.6	294.0	297.0	298.8	298.2
70°	260.0	251.1	255.3	254.1	254.7
72.5°	219.5	212.3	211.7	209.9	211.7
75°	179.5	171.2	168.8	168.8	168.2
77.5°	141.4	133.0	130.6	129.4	127.6
80°	105.0	98.4	94.2	93.6	90.1
82.5°	74.0	65.6	64.4	59.0	55.5
85°	41.8	37.0	32.8	26.8	25.6
87.5°	15.5	13.7	10.7	10.1	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)