

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: P229815

Luminaire Tested: **24RLN-LD5-80-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229815
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-80-RDP-UNV-L930-CD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH RDP LENS
Light Source: (252)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5545.0 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

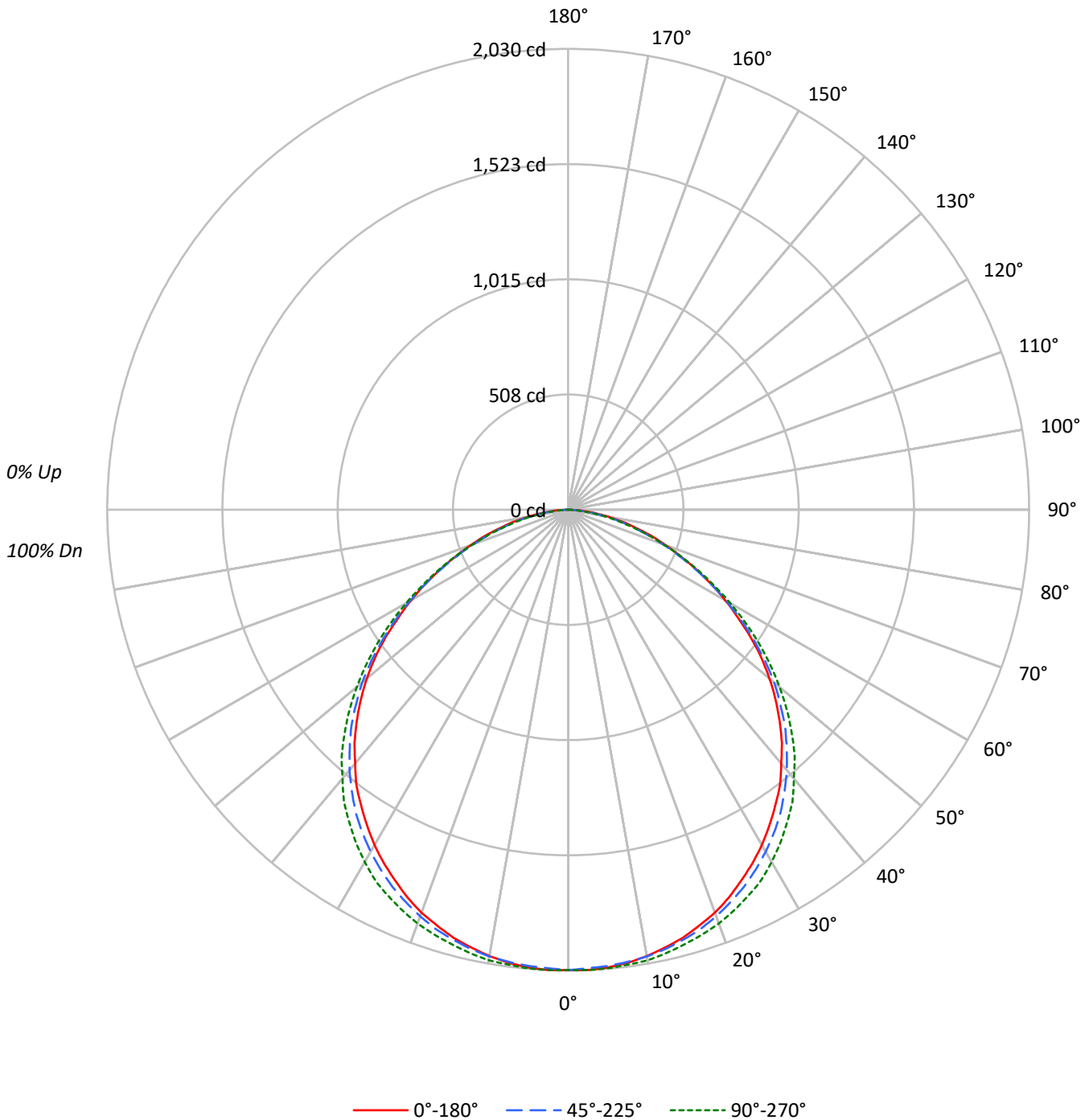
Input Watts (W): 67.45
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3106	3106	3106
5°	3111	3102	3118
10°	3105	3108	3134
15°	3095	3109	3142
20°	3079	3106	3161
25°	3047	3096	3171
30°	3017	3077	3170
35°	2974	3048	3143
40°	2919	2995	3091
45°	2852	2925	3017
50°	2757	2822	2897
55°	2623	2657	2736
60°	2449	2462	2526
65°	2249	2234	2287
70°	2044	1988	1997
75°	1817	1718	1706
80°	1577	1410	1373
85°	1293	998	777



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.3	3.5
10°-20°	554.4	10.0
20°-30°	846.3	15.3
30°-40°	1020.2	18.4
40°-50°	1040.4	18.8
50°-60°	890.4	16.1
60°-70°	613.3	11.1
70°-80°	314.4	5.7
80°-90°	73.2	1.3
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°	1593.0	28.7
0°-40°	2613.2	47.1
0°-60°	4544.0	81.9
0°-90°	5545.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5545.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2028	2028	2028	2028	2028	
5°	2024	2019	2017	2024	2028	192
15°	1952	1950	1960	1975	1982	551
25°	1803	1809	1832	1864	1876	831
35°	1590	1597	1630	1666	1681	995
45°	1317	1319	1350	1384	1393	1015
55°	982	976	995	1016	1024	876
65°	620	606	616	620	631	617
75°	307	294	290	290	288	331
85°	74	65	57	50	44	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2027.8	2027.8	2027.8	2027.8	2027.8
2.5°	2029.9	2025.7	2021.5	2025.7	2029.9
5°	2023.6	2019.4	2017.3	2023.6	2027.8
7.5°	2013.1	2008.9	2008.9	2017.3	2021.5
10°	1996.3	1994.2	1998.4	2006.8	2015.2
12.5°	1975.2	1975.2	1981.5	1992.1	2000.5
15°	1952.1	1950.0	1960.5	1975.2	1981.5
17.5°	1920.5	1922.6	1937.4	1954.2	1962.6
20°	1889.0	1891.1	1905.8	1929.0	1939.5
22.5°	1849.0	1853.2	1870.1	1899.5	1910.0
25°	1802.7	1809.1	1832.2	1863.8	1876.4
27.5°	1756.5	1762.8	1788.0	1823.8	1840.6
30°	1706.0	1714.4	1739.6	1777.5	1792.2
32.5°	1649.2	1655.5	1687.1	1724.9	1739.6
35°	1590.3	1596.6	1630.3	1666.0	1680.7
37.5°	1531.4	1531.4	1565.0	1607.1	1621.8
40°	1459.9	1462.0	1497.7	1537.7	1546.1
42.5°	1392.6	1392.6	1424.1	1462.0	1476.7
45°	1316.8	1318.9	1350.5	1384.1	1392.6
47.5°	1239.0	1239.0	1266.3	1297.9	1306.3
50°	1157.0	1152.7	1184.3	1209.5	1215.9
52.5°	1072.8	1066.5	1091.7	1112.8	1121.2
55°	982.4	976.0	995.0	1016.0	1024.4
57.5°	887.7	879.3	900.3	919.3	923.5
60°	799.4	786.7	803.6	814.1	824.6
62.5°	711.0	696.3	708.9	715.2	723.6
65°	620.5	605.8	616.3	620.5	631.1
67.5°	534.3	523.8	525.9	532.2	536.4
70°	456.5	443.9	443.9	443.9	446.0
72.5°	385.0	366.0	363.9	366.0	366.0
75°	307.1	294.5	290.3	290.3	288.2
77.5°	246.1	229.3	227.2	223.0	218.8
80°	178.8	164.1	159.9	157.8	155.7
82.5°	124.1	111.5	107.3	103.1	96.8
85°	73.6	65.2	56.8	50.5	44.2
87.5°	27.3	25.2	21.0	18.9	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)