

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: P229892

Luminaire Tested: **24RLN-LD5-60-UNV-L940-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36062)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-60-UNV-L940-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR
Light Source: (252)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5234.0 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

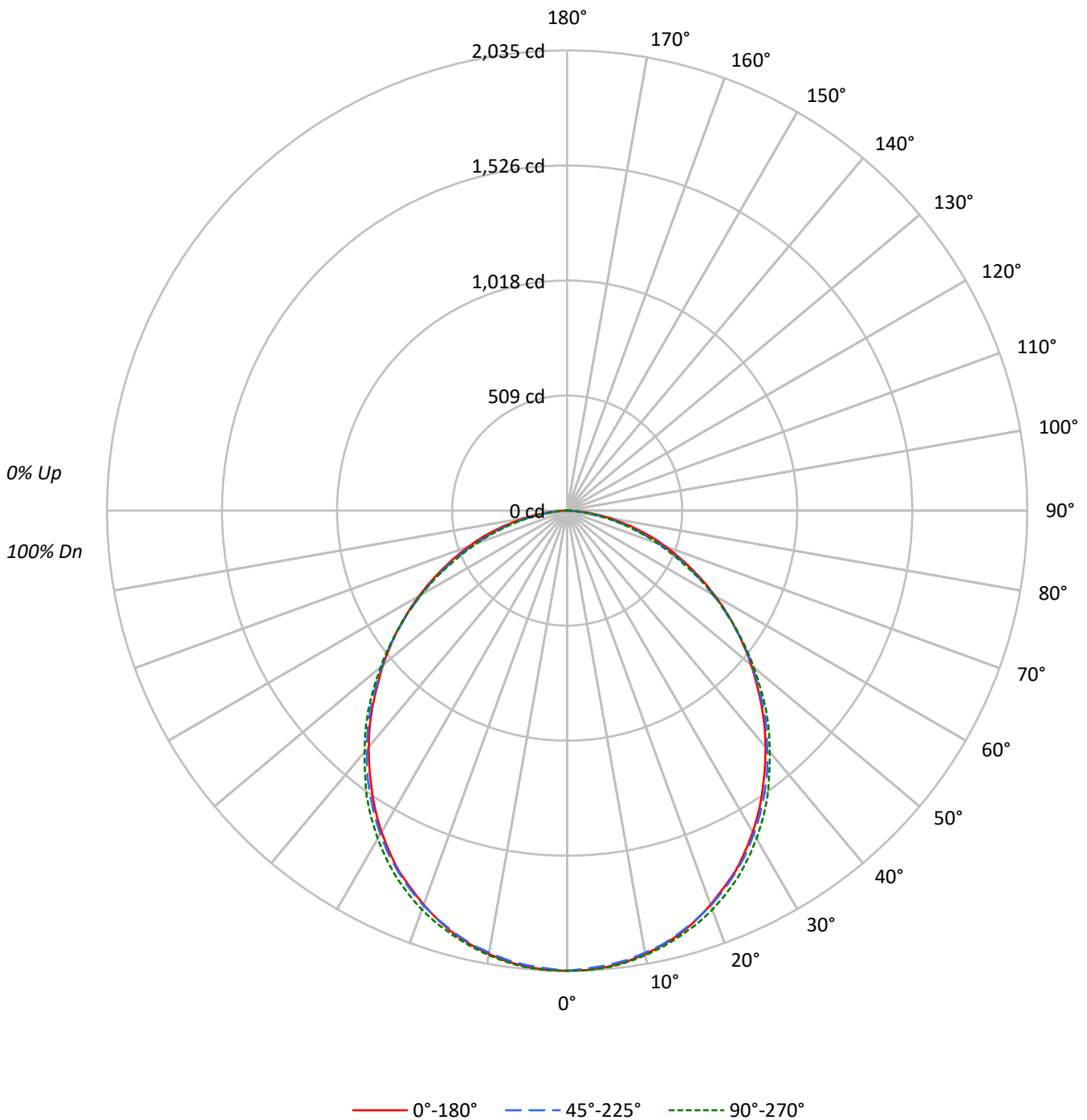
Input Watts (W): 47.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	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	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3117	3117	3117
5°	3114	3103	3119
10°	3098	3087	3105
15°	3071	3063	3084
20°	3024	3029	3062
25°	2975	2983	3022
30°	2904	2921	2963
35°	2817	2845	2889
40°	2729	2753	2786
45°	2632	2657	2693
50°	2534	2546	2566
55°	2435	2421	2430
60°	2318	2282	2293
65°	2187	2138	2102
70°	2068	1956	1911
75°	1904	1736	1677
80°	1676	1470	1382
85°	1318	1025	761



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.1	3.7
10°-20°	546.1	10.4
20°-30°	814.0	15.6
30°-40°	951.7	18.2
40°-50°	945.0	18.1
50°-60°	811.5	15.5
60°-70°	584.6	11.2
70°-80°	314.7	6.0
80°-90°	74.2	1.4
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°	1552.2	29.7
0°-40°	2503.9	47.8
0°-60°	4260.4	81.4
0°-90°	5234.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5234.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2035	2035	2035	2035	2035	
5°	2025	2023	2018	2025	2028	192
15°	1937	1932	1932	1943	1945	545
25°	1760	1753	1765	1783	1788	809
35°	1507	1505	1522	1538	1545	943
45°	1215	1212	1227	1237	1243	937
55°	912	903	907	912	910	814
65°	603	593	590	585	580	599
75°	322	302	293	285	283	341
85°	75	68	58	47	43	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2035.1	2035.1	2035.1	2035.1	2035.1
2.5°	2033.4	2031.7	2026.7	2033.4	2035.1
5°	2025.1	2023.4	2018.4	2025.1	2028.4
7.5°	2011.7	2008.4	2005.1	2011.7	2015.1
10°	1991.7	1988.4	1985.1	1993.4	1996.7
12.5°	1966.7	1963.4	1963.4	1970.1	1973.4
15°	1936.7	1931.7	1931.7	1943.4	1945.1
17.5°	1898.4	1895.1	1896.7	1910.1	1915.1
20°	1855.1	1853.4	1858.4	1873.4	1878.4
22.5°	1806.7	1805.1	1813.4	1831.7	1835.1
25°	1760.1	1753.4	1765.1	1783.4	1788.4
27.5°	1701.7	1696.7	1711.7	1728.4	1733.4
30°	1641.7	1636.7	1651.7	1670.1	1675.1
32.5°	1576.7	1573.4	1588.4	1606.7	1611.7
35°	1506.7	1505.1	1521.7	1538.4	1545.1
37.5°	1436.7	1435.1	1453.4	1466.7	1468.4
40°	1365.1	1361.7	1376.7	1391.7	1393.4
42.5°	1291.7	1286.7	1303.4	1315.1	1320.1
45°	1215.0	1211.7	1226.7	1236.7	1243.4
47.5°	1136.7	1136.7	1145.0	1156.7	1158.4
50°	1063.4	1058.4	1068.4	1075.0	1076.7
52.5°	986.7	981.7	990.0	991.7	995.0
55°	911.7	903.4	906.7	911.7	910.0
57.5°	833.4	820.0	826.7	826.7	830.0
60°	756.7	745.0	745.0	745.0	748.4
62.5°	680.0	668.4	668.4	666.7	665.0
65°	603.4	593.4	590.0	585.0	580.0
67.5°	530.0	518.4	511.7	505.0	500.0
70°	461.7	441.7	436.7	426.7	426.7
72.5°	393.3	373.3	363.3	356.7	355.0
75°	321.7	301.7	293.3	285.0	283.3
77.5°	251.7	238.3	225.0	218.3	215.0
80°	190.0	178.3	166.7	155.0	156.7
82.5°	130.0	118.3	110.0	100.0	96.7
85°	75.0	68.3	58.3	46.7	43.3
87.5°	31.7	23.3	16.7	16.7	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)