

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: P229824

Luminaire Tested: **24RLN-LD5-74-RDP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229824
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-LD5-74-RDP-UNV-L935-CD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH RDP LENS
Light Source: (252)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5307.0 lumens
Efficiency: N/A
Efficacy: 86.2 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

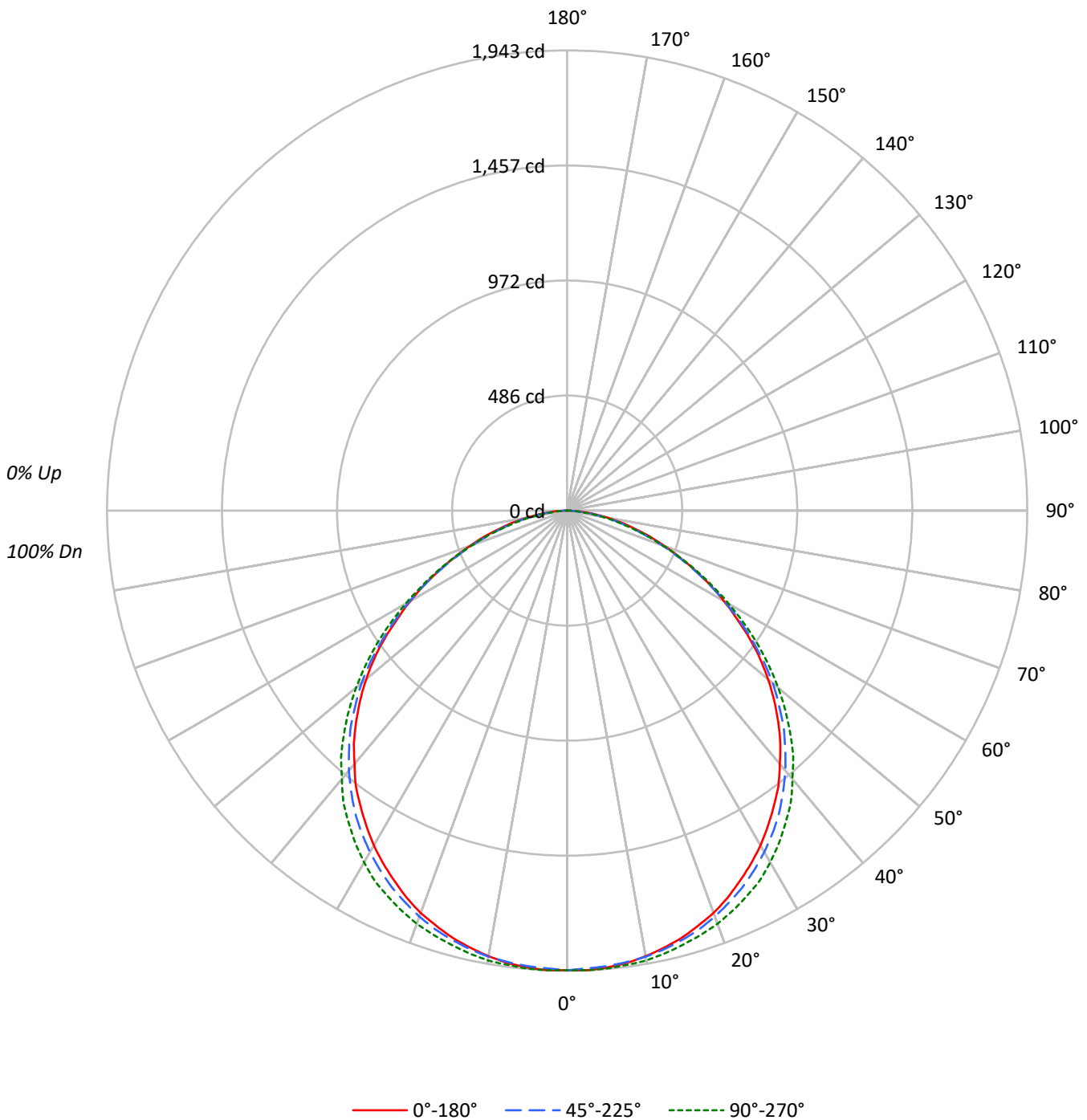
Input Watts (W): 61.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2973	2973	2973
5°	2978	2968	2984
10°	2972	2975	3000
15°	2963	2975	3007
20°	2947	2973	3026
25°	2916	2964	3035
30°	2888	2945	3034
35°	2846	2917	3008
40°	2794	2866	2959
45°	2730	2800	2887
50°	2639	2701	2773
55°	2511	2543	2618
60°	2343	2356	2418
65°	2152	2138	2189
70°	1957	1902	1911
75°	1739	1644	1632
80°	1509	1350	1314
85°	1239	956	743



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.1	3.5
10°-20°	530.6	10.0
20°-30°	810.0	15.3
30°-40°	976.4	18.4
40°-50°	995.8	18.8
50°-60°	852.2	16.1
60°-70°	587.0	11.1
70°-80°	300.9	5.7
80°-90°	70.0	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°	1524.6	28.7
0°-40°	2501.1	47.1
0°-60°	4349.0	81.9
0°-90°	5307.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5307.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1941	1941	1941	1941	1941	
5°	1937	1933	1931	1937	1941	184
15°	1868	1866	1876	1890	1896	527
25°	1725	1731	1754	1784	1796	796
35°	1522	1528	1560	1594	1609	952
45°	1260	1262	1292	1325	1333	971
55°	940	934	952	972	980	839
65°	594	580	590	594	604	590
75°	294	282	278	278	276	317
85°	70	62	54	48	42	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1940.8	1940.8	1940.8	1940.8	1940.8
2.5°	1942.8	1938.8	1934.8	1938.8	1942.8
5°	1936.8	1932.7	1930.7	1936.8	1940.8
7.5°	1926.7	1922.7	1922.7	1930.7	1934.8
10°	1910.6	1908.6	1912.6	1920.7	1928.7
12.5°	1890.5	1890.5	1896.5	1906.6	1914.6
15°	1868.3	1866.3	1876.4	1890.5	1896.5
17.5°	1838.1	1840.1	1854.2	1870.3	1878.4
20°	1807.9	1809.9	1824.0	1846.2	1856.2
22.5°	1769.7	1773.7	1789.8	1818.0	1828.0
25°	1725.4	1731.4	1753.6	1783.8	1795.8
27.5°	1681.1	1687.1	1711.3	1745.5	1761.6
30°	1632.8	1640.8	1665.0	1701.2	1715.3
32.5°	1578.4	1584.4	1614.6	1650.9	1665.0
35°	1522.0	1528.1	1560.3	1594.5	1608.6
37.5°	1465.7	1465.7	1497.9	1538.1	1552.2
40°	1397.2	1399.2	1433.4	1471.7	1479.8
42.5°	1332.8	1332.8	1363.0	1399.2	1413.3
45°	1260.3	1262.3	1292.5	1324.7	1332.8
47.5°	1185.8	1185.8	1212.0	1242.2	1250.2
50°	1107.3	1103.3	1133.5	1157.6	1163.7
52.5°	1026.8	1020.7	1044.9	1065.0	1073.1
55°	940.2	934.2	952.3	972.4	980.5
57.5°	849.6	841.5	861.7	879.8	883.8
60°	765.0	753.0	769.1	779.1	789.2
62.5°	680.5	666.4	678.5	684.5	692.6
65°	593.9	579.8	589.9	593.9	604.0
67.5°	511.4	501.3	503.3	509.4	513.4
70°	436.9	424.8	424.8	424.8	426.8
72.5°	368.4	350.3	348.3	350.3	350.3
75°	293.9	281.9	277.8	277.8	275.8
77.5°	235.6	219.4	217.4	213.4	209.4
80°	171.1	157.0	153.0	151.0	149.0
82.5°	118.8	106.7	102.7	98.7	92.6
85°	70.5	62.4	54.4	48.3	42.3
87.5°	26.2	24.2	20.1	18.1	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)