

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: P229944

Luminaire Tested: **24RLN-LD5-74-RDP-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229944
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-LD5-74-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: 5242.0 lumens
Efficiency: N/A
Efficacy: 85.1 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

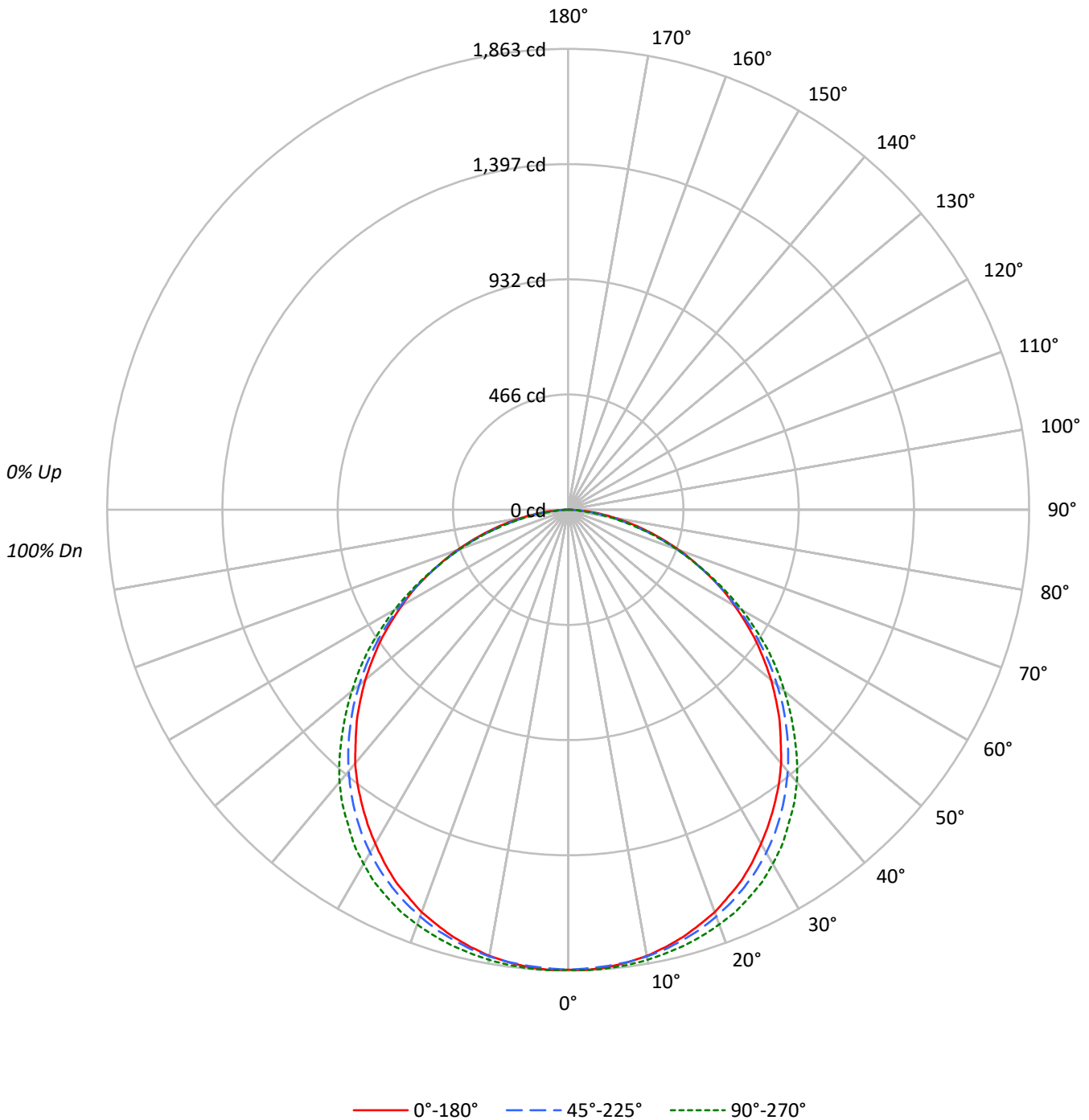
Input Watts (W): 61.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2849	2849	2849
5°	2853	2846	2861
10°	2849	2852	2874
15°	2837	2854	2890
20°	2821	2852	2909
25°	2798	2846	2924
30°	2758	2832	2924
35°	2718	2803	2902
40°	2677	2760	2875
45°	2618	2701	2803
50°	2552	2625	2719
55°	2475	2536	2626
60°	2380	2410	2484
65°	2269	2269	2293
70°	2134	2094	2090
75°	1946	1830	1824
80°	1696	1523	1455
85°	1344	1056	826



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.5	3.4
10°-20°	509.1	9.7
20°-30°	777.8	14.8
30°-40°	938.4	17.9
40°-50°	961.8	18.3
50°-60°	847.4	16.2
60°-70°	620.2	11.8
70°-80°	333.3	6.4
80°-90°	77.6	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°	1463.4	27.9
0°-40°	2401.8	45.8
0°-60°	4210.9	80.3
0°-90°	5242.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5242.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1860	1860	1860	1860	1860	
5°	1856	1853	1851	1857	1861	176
15°	1789	1791	1800	1814	1823	505
25°	1656	1660	1684	1717	1730	762
35°	1453	1461	1499	1541	1552	910
45°	1209	1208	1247	1283	1294	931
55°	927	921	950	972	984	827
65°	626	615	626	634	633	621
75°	329	314	309	309	308	349
85°	76	68	60	49	47	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1859.9	1859.9	1859.9	1859.9	1859.9
2.5°	1862.1	1858.9	1855.6	1858.9	1863.2
5°	1855.6	1853.4	1851.2	1856.7	1861.0
7.5°	1845.7	1843.6	1844.6	1852.3	1855.6
10°	1831.5	1831.5	1833.7	1842.5	1847.9
12.5°	1811.9	1813.0	1819.5	1830.4	1835.9
15°	1788.9	1791.1	1799.8	1814.1	1822.8
17.5°	1760.5	1766.0	1778.0	1795.5	1805.3
20°	1731.0	1734.3	1749.6	1774.7	1784.5
22.5°	1692.7	1699.3	1719.0	1748.5	1761.6
25°	1655.6	1660.0	1684.0	1716.8	1729.9
27.5°	1608.6	1615.2	1644.7	1682.9	1697.1
30°	1559.4	1567.1	1601.0	1638.1	1653.4
32.5°	1508.1	1517.9	1552.9	1592.2	1608.6
35°	1453.4	1461.1	1499.3	1540.9	1551.8
37.5°	1398.8	1401.0	1441.4	1481.8	1499.3
40°	1338.7	1340.9	1380.2	1418.5	1438.1
42.5°	1270.9	1277.5	1315.7	1352.9	1368.2
45°	1208.6	1207.5	1246.9	1282.9	1293.9
47.5°	1138.7	1140.9	1176.9	1211.9	1218.5
50°	1070.9	1069.9	1101.5	1132.1	1140.9
52.5°	996.6	995.5	1027.2	1052.4	1063.3
55°	926.7	921.2	949.6	971.5	983.5
57.5°	851.3	843.6	868.8	890.6	896.1
60°	777.0	768.2	786.8	803.2	810.9
62.5°	705.9	695.0	707.0	721.2	722.3
65°	626.2	615.2	626.2	633.8	632.7
67.5°	550.8	538.8	544.2	547.5	546.4
70°	476.5	460.1	467.7	465.5	466.6
72.5°	402.2	389.0	387.9	384.7	387.9
75°	328.9	313.6	309.3	309.3	308.2
77.5°	259.0	243.7	239.3	237.1	233.9
80°	192.3	180.3	172.7	171.6	165.0
82.5°	135.5	120.2	118.0	108.2	101.6
85°	76.5	67.8	60.1	49.2	47.0
87.5°	28.4	25.1	19.7	18.6	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)