

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: P229887

Luminaire Tested: **24RLN-LD5-36-UNV-L940-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229887
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-LD5-36-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: 3186.0 lumens
Efficiency: N/A
Efficacy: 120.2 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

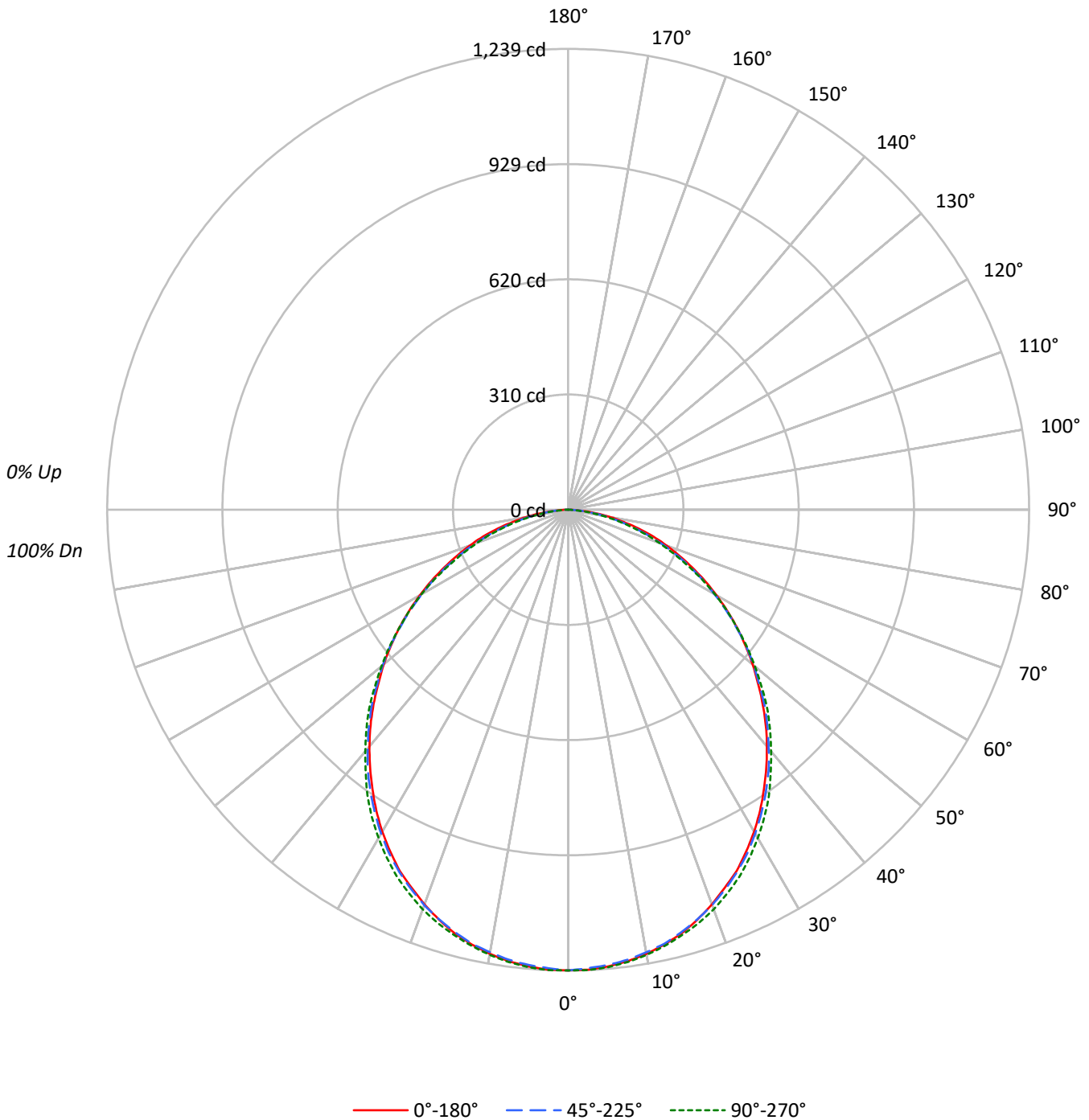
Input Watts (W): 26.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1897	1897	1897
5°	1895	1889	1898
10°	1886	1879	1890
15°	1869	1865	1877
20°	1841	1844	1864
25°	1811	1816	1840
30°	1767	1778	1803
35°	1715	1732	1759
40°	1661	1676	1696
45°	1602	1617	1640
50°	1542	1550	1562
55°	1482	1474	1479
60°	1411	1389	1395
65°	1331	1302	1280
70°	1258	1190	1163
75°	1159	1057	1021
80°	1021	895	841
85°	803	624	464



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.9	3.7
10°-20°	332.4	10.4
20°-30°	495.5	15.6
30°-40°	579.3	18.2
40°-50°	575.2	18.1
50°-60°	494.0	15.5
60°-70°	355.8	11.2
70°-80°	191.6	6.0
80°-90°	45.2	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°	944.9	29.7
0°-40°	1524.2	47.8
0°-60°	2593.4	81.4
0°-90°	3186.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3186.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1239	1239	1239	1239	1239	
5°	1233	1232	1229	1233	1235	117
15°	1179	1176	1176	1183	1184	332
25°	1071	1067	1074	1086	1089	493
35°	917	916	926	936	940	574
45°	740	738	747	753	757	571
55°	555	550	552	555	554	496
65°	367	361	359	356	353	365
75°	196	184	179	174	172	207
85°	46	42	36	28	26	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1238.8	1238.8	1238.8	1238.8	1238.8
2.5°	1237.8	1236.7	1233.7	1237.8	1238.8
5°	1232.7	1231.7	1228.6	1232.7	1234.7
7.5°	1224.6	1222.5	1220.5	1224.6	1226.6
10°	1212.4	1210.4	1208.3	1213.4	1215.4
12.5°	1197.2	1195.2	1195.2	1199.2	1201.2
15°	1178.9	1175.9	1175.9	1183.0	1184.0
17.5°	1155.6	1153.6	1154.6	1162.7	1165.7
20°	1129.2	1128.2	1131.2	1140.4	1143.4
22.5°	1099.8	1098.8	1103.8	1115.0	1117.0
25°	1071.4	1067.3	1074.4	1085.6	1088.6
27.5°	1035.9	1032.8	1042.0	1052.1	1055.1
30°	999.3	996.3	1005.4	1016.6	1019.6
32.5°	959.8	957.7	966.9	978.0	981.1
35°	917.2	916.1	926.3	936.4	940.5
37.5°	874.6	873.5	884.7	892.8	893.8
40°	830.9	828.9	838.0	847.2	848.2
42.5°	786.3	783.2	793.4	800.5	803.5
45°	739.6	737.6	746.7	752.8	756.9
47.5°	691.9	691.9	697.0	704.1	705.1
50°	647.3	644.2	650.3	654.4	655.4
52.5°	600.6	597.6	602.6	603.7	605.7
55°	555.0	549.9	551.9	555.0	554.0
57.5°	507.3	499.2	503.2	503.2	505.3
60°	460.6	453.5	453.5	453.5	455.5
62.5°	413.9	406.8	406.8	405.8	404.8
65°	367.3	361.2	359.2	356.1	353.1
67.5°	322.6	315.5	311.5	307.4	304.4
70°	281.0	268.9	265.8	259.7	259.7
72.5°	239.4	227.3	221.2	217.1	216.1
75°	195.8	183.6	178.6	173.5	172.5
77.5°	153.2	145.1	137.0	132.9	130.9
80°	115.7	108.6	101.5	94.4	95.4
82.5°	79.1	72.0	67.0	60.9	58.8
85°	45.7	41.6	35.5	28.4	26.4
87.5°	19.3	14.2	10.1	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)