

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: P229767

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229767
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36038)
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-U
Description: METALUX 2X4 RLN LED TROFFER
Light Source: (252)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3225.0 lumens
Efficiency: N/A
Efficacy: 121.7 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

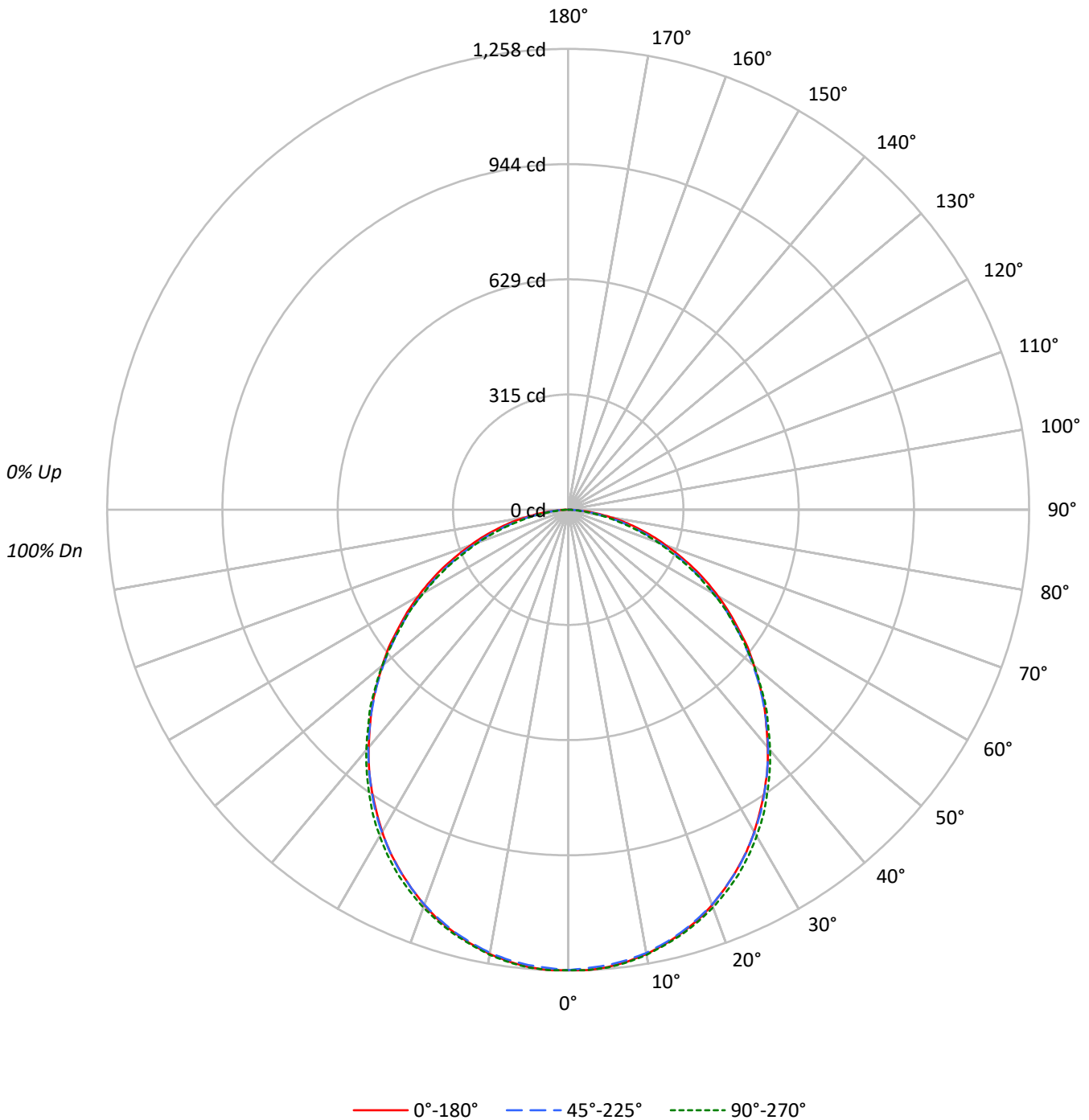
Input Watts (W): 26.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	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	32
9	58	44	36	31	56	44	36	31	43	36	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°	1925	1925	1925
5°	1926	1919	1928
10°	1915	1911	1919
15°	1897	1893	1903
20°	1872	1870	1883
25°	1836	1838	1857
30°	1796	1798	1819
35°	1747	1749	1770
40°	1694	1698	1714
45°	1639	1635	1655
50°	1576	1566	1579
55°	1512	1493	1487
60°	1448	1405	1398
65°	1368	1309	1291
70°	1268	1190	1167
75°	1165	1050	997
80°	1021	877	796
85°	838	606	482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.8	3.7
10°-20°	337.4	10.5
20°-30°	502.0	15.6
30°-40°	586.5	18.2
40°-50°	583.1	18.1
50°-60°	501.0	15.5
60°-70°	359.8	11.2
70°-80°	191.6	5.9
80°-90°	44.9	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°	958.2	29.7
0°-40°	1544.7	47.9
0°-60°	2628.7	81.5
0°-90°	3225.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3225.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1257	1257	1257	1257	1257	
5°	1253	1251	1248	1252	1254	119
15°	1196	1196	1194	1198	1200	337
25°	1087	1087	1088	1096	1099	500
35°	934	932	935	946	947	584
45°	757	751	755	759	764	583
55°	566	559	559	559	557	508
65°	377	366	361	357	356	373
75°	197	186	178	172	168	210
85°	48	41	34	28	27	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1257.0	1257.0	1257.0	1257.0	1257.0
2.5°	1258.0	1256.0	1251.9	1257.0	1258.0
5°	1252.9	1250.9	1247.9	1251.9	1254.0
7.5°	1243.8	1241.8	1239.8	1243.8	1245.8
10°	1231.6	1230.6	1228.6	1233.7	1233.7
12.5°	1215.4	1214.4	1212.4	1217.4	1217.4
15°	1196.1	1196.1	1194.1	1198.2	1200.2
17.5°	1174.8	1173.8	1171.8	1176.9	1178.9
20°	1148.4	1148.4	1147.4	1153.5	1155.5
22.5°	1118.0	1118.0	1118.0	1126.1	1128.2
25°	1086.6	1086.6	1087.6	1095.7	1098.7
27.5°	1053.1	1052.1	1053.1	1062.2	1065.3
30°	1015.5	1013.5	1016.6	1025.7	1028.7
32.5°	975.0	972.9	978.0	986.1	990.2
35°	934.4	932.4	935.4	945.5	946.6
37.5°	892.8	887.7	892.8	901.9	902.9
40°	847.1	843.1	849.2	853.2	857.3
42.5°	800.5	798.4	801.5	808.6	808.6
45°	756.8	750.8	754.8	758.9	763.9
47.5°	708.1	705.1	707.1	710.2	712.2
50°	661.5	656.4	657.4	660.5	662.5
52.5°	617.8	607.7	607.7	609.7	609.7
55°	566.1	559.0	559.0	559.0	557.0
57.5°	520.5	511.3	510.3	510.3	510.3
60°	472.8	461.6	458.6	458.6	456.5
62.5°	425.1	414.9	410.9	406.8	406.8
65°	377.4	366.2	361.2	357.1	356.1
67.5°	328.7	320.6	314.5	309.4	304.4
70°	283.1	273.9	265.8	260.7	260.7
72.5°	240.4	230.3	222.2	216.1	213.1
75°	196.8	185.7	177.5	172.5	168.4
77.5°	158.3	146.1	138.0	130.9	126.8
80°	115.7	106.5	99.4	92.3	90.3
82.5°	80.1	73.0	64.9	59.9	57.8
85°	47.7	40.6	34.5	28.4	27.4
87.5°	19.3	14.2	11.2	11.2	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)