

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: P229811

Luminaire Tested: **24RLN-LD5-55-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229811
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-LD5-55-RDP-UNV-L930-CD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH RDP LENS
Light Source: (252)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3822.0 lumens
Efficiency: N/A
Efficacy: 89.5 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

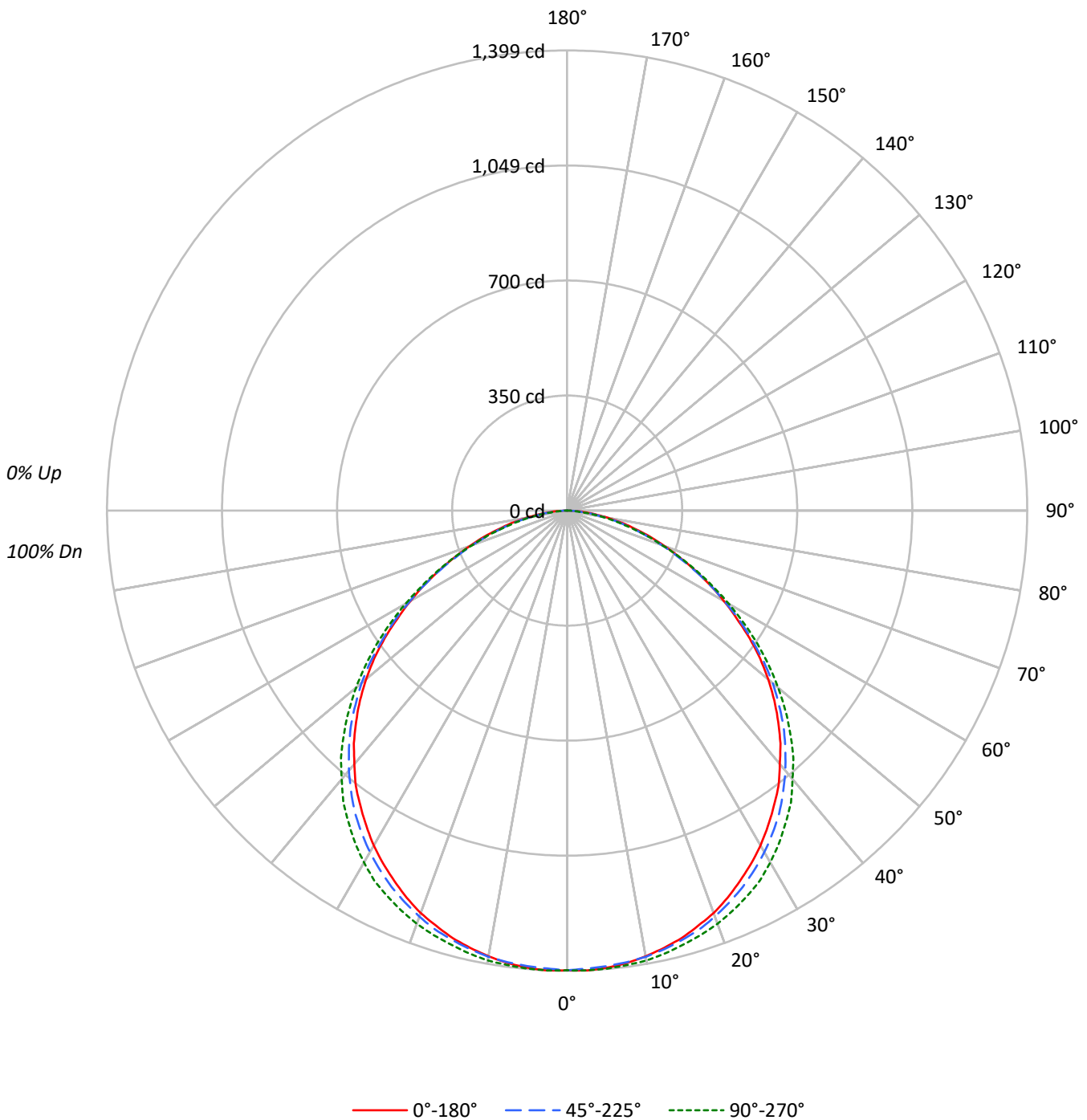
Input Watts (W): 42.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2141	2141	2141
5°	2145	2138	2149
10°	2140	2142	2160
15°	2134	2143	2166
20°	2122	2141	2179
25°	2100	2134	2186
30°	2080	2121	2185
35°	2050	2101	2166
40°	2012	2064	2131
45°	1966	2016	2079
50°	1900	1945	1997
55°	1808	1831	1886
60°	1688	1697	1741
65°	1550	1540	1577
70°	1409	1370	1377
75°	1253	1184	1175
80°	1087	972	946
85°	891	687	534



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.6	3.5
10°-20°	382.1	10.0
20°-30°	583.3	15.3
30°-40°	703.2	18.4
40°-50°	717.1	18.8
50°-60°	613.7	16.1
60°-70°	422.8	11.1
70°-80°	216.7	5.7
80°-90°	50.4	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°	1098.0	28.7
0°-40°	1801.2	47.1
0°-60°	3132.1	81.9
0°-90°	3822.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3822.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1398	1398	1398	1398	1398	
5°	1395	1392	1390	1395	1398	133
15°	1346	1344	1351	1362	1366	379
25°	1243	1247	1263	1285	1293	573
35°	1096	1100	1124	1148	1158	686
45°	908	909	931	954	960	699
55°	677	673	686	700	706	604
65°	428	418	425	428	435	425
75°	212	203	200	200	199	228
85°	51	45	39	35	30	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1397.7	1397.7	1397.7	1397.7	1397.7
2.5°	1399.2	1396.3	1393.4	1396.3	1399.2
5°	1394.8	1391.9	1390.5	1394.8	1397.7
7.5°	1387.6	1384.7	1384.7	1390.5	1393.4
10°	1376.0	1374.5	1377.4	1383.2	1389.0
12.5°	1361.5	1361.5	1365.8	1373.1	1378.9
15°	1345.5	1344.1	1351.3	1361.5	1365.8
17.5°	1323.8	1325.2	1335.4	1347.0	1352.8
20°	1302.0	1303.5	1313.6	1329.6	1336.8
22.5°	1274.5	1277.4	1289.0	1309.3	1316.5
25°	1242.6	1246.9	1262.9	1284.6	1293.3
27.5°	1210.7	1215.0	1232.4	1257.1	1268.7
30°	1175.9	1181.7	1199.1	1225.2	1235.3
32.5°	1136.7	1141.1	1162.8	1188.9	1199.1
35°	1096.1	1100.5	1123.7	1148.3	1158.5
37.5°	1055.5	1055.5	1078.7	1107.7	1117.9
40°	1006.2	1007.7	1032.3	1059.9	1065.7
42.5°	959.8	959.8	981.6	1007.7	1017.8
45°	907.6	909.1	930.8	954.0	959.8
47.5°	854.0	854.0	872.8	894.6	900.4
50°	797.5	794.6	816.3	833.7	838.1
52.5°	739.5	735.1	752.5	767.0	772.8
55°	677.1	672.8	685.8	700.3	706.1
57.5°	611.9	606.1	620.6	633.6	636.5
60°	551.0	542.3	553.9	561.1	568.4
62.5°	490.1	479.9	488.6	493.0	498.8
65°	427.7	417.6	424.8	427.7	435.0
67.5°	368.3	361.0	362.5	366.8	369.7
70°	314.6	305.9	305.9	305.9	307.4
72.5°	265.3	252.3	250.8	252.3	252.3
75°	211.7	203.0	200.1	200.1	198.6
77.5°	169.6	158.0	156.6	153.7	150.8
80°	123.2	113.1	110.2	108.7	107.3
82.5°	85.5	76.8	73.9	71.0	66.7
85°	50.7	44.9	39.1	34.8	30.4
87.5°	18.8	17.4	14.5	13.0	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)