

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: P229951

Luminaire Tested: **24RLN-LD5-55-RDP-UNV-L940-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229951
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-LD5-55-RDP-UNV-L940-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (252)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4018.0 lumens
Efficiency: N/A
Efficacy: 94.1 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

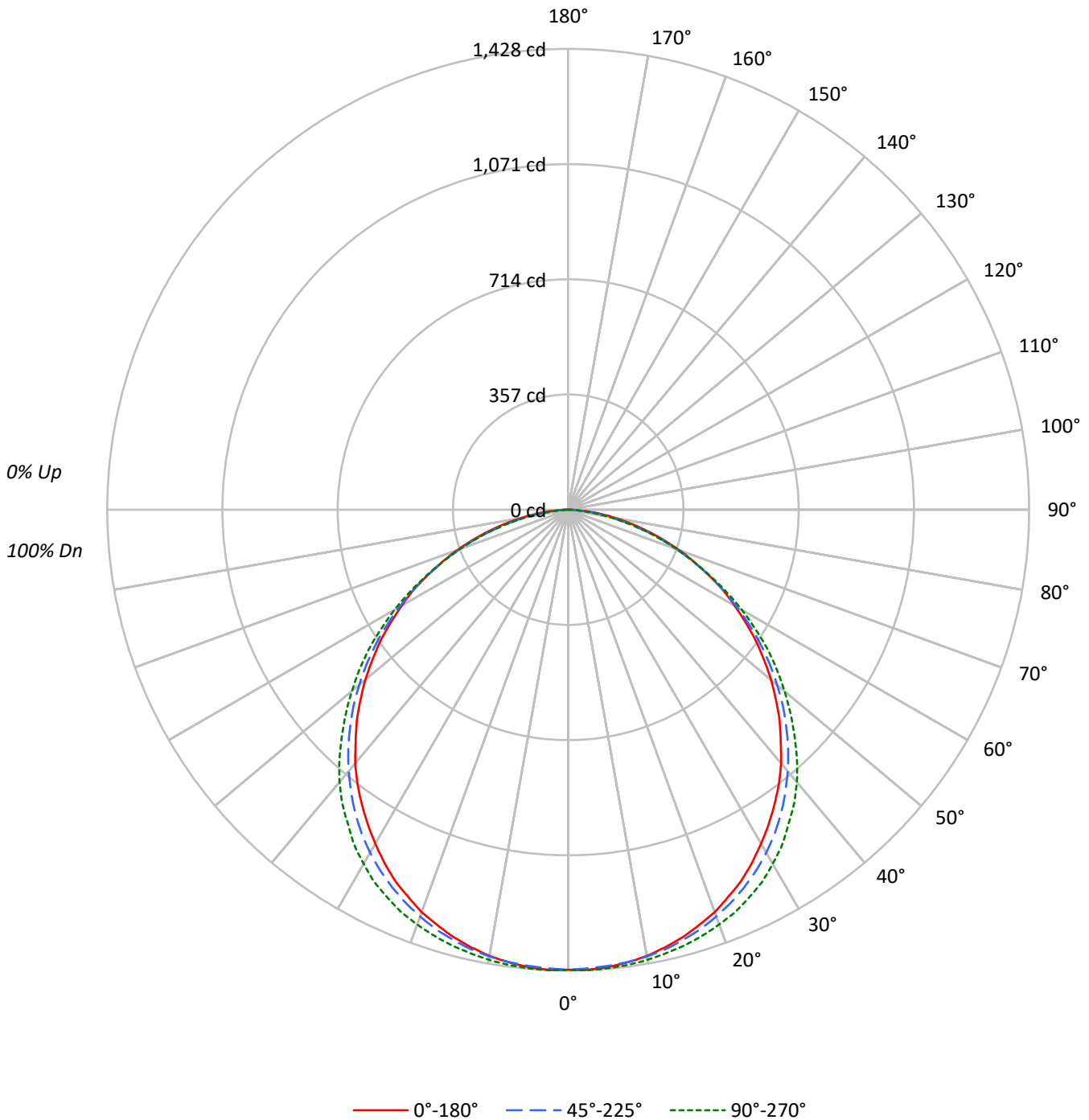
Input Watts (W): 42.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2184	2184	2184
5°	2187	2182	2193
10°	2183	2186	2203
15°	2174	2188	2216
20°	2163	2186	2230
25°	2145	2181	2241
30°	2114	2170	2241
35°	2083	2149	2224
40°	2052	2115	2204
45°	2007	2070	2148
50°	1956	2012	2084
55°	1897	1944	2013
60°	1825	1847	1904
65°	1740	1740	1758
70°	1635	1605	1602
75°	1492	1403	1398
80°	1300	1167	1116
85°	1030	810	633



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	3.4
10°-20°	390.2	9.7
20°-30°	596.2	14.8
30°-40°	719.2	17.9
40°-50°	737.2	18.3
50°-60°	649.5	16.2
60°-70°	475.4	11.8
70°-80°	255.5	6.4
80°-90°	59.5	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°	1121.7	27.9
0°-40°	1840.9	45.8
0°-60°	3227.7	80.3
0°-90°	4018.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4018.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1426	1426	1426	1426	1426	
5°	1422	1421	1419	1423	1426	135
15°	1371	1373	1380	1390	1397	387
25°	1269	1272	1291	1316	1326	584
35°	1114	1120	1149	1181	1189	697
45°	926	926	956	983	992	714
55°	710	706	728	745	754	634
65°	480	472	480	486	485	476
75°	252	240	237	237	236	268
85°	59	52	46	38	36	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1425.7	1425.7	1425.7	1425.7	1425.7
2.5°	1427.3	1424.8	1422.3	1424.8	1428.2
5°	1422.3	1420.6	1419.0	1423.1	1426.5
7.5°	1414.8	1413.1	1413.9	1419.8	1422.3
10°	1403.9	1403.9	1405.5	1412.3	1416.4
12.5°	1388.8	1389.6	1394.7	1403.0	1407.2
15°	1371.2	1372.9	1379.6	1390.5	1397.2
17.5°	1349.4	1353.6	1362.8	1376.2	1383.8
20°	1326.8	1329.3	1341.1	1360.3	1367.9
22.5°	1297.5	1302.5	1317.6	1340.2	1350.3
25°	1269.0	1272.4	1290.8	1315.9	1326.0
27.5°	1233.0	1238.0	1260.6	1290.0	1300.8
30°	1195.3	1201.2	1227.1	1255.6	1267.3
32.5°	1155.9	1163.5	1190.3	1220.4	1233.0
35°	1114.1	1119.9	1149.2	1181.1	1189.4
37.5°	1072.2	1073.8	1104.8	1135.8	1149.2
40°	1026.1	1027.8	1057.9	1087.2	1102.3
42.5°	974.2	979.2	1008.5	1037.0	1048.7
45°	926.4	925.6	955.7	983.4	991.8
47.5°	872.8	874.5	902.1	928.9	934.0
50°	820.9	820.0	844.3	867.8	874.5
52.5°	763.9	763.1	787.4	806.6	815.0
55°	710.3	706.1	727.9	744.7	753.9
57.5°	652.5	646.7	665.9	682.7	686.9
60°	595.6	588.9	603.1	615.7	621.5
62.5°	541.1	532.7	541.9	552.8	553.7
65°	480.0	471.6	480.0	485.8	485.0
67.5°	422.2	413.0	417.1	419.7	418.8
70°	365.2	352.6	358.5	356.8	357.7
72.5°	308.2	298.2	297.4	294.8	297.4
75°	252.1	240.4	237.1	237.1	236.2
77.5°	198.5	186.8	183.4	181.8	179.3
80°	147.4	138.2	132.3	131.5	126.5
82.5°	103.9	92.1	90.5	82.9	77.9
85°	58.6	51.9	46.1	37.7	36.0
87.5°	21.8	19.3	15.1	14.2	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)