

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: P296265

Luminaire Tested: **24RLN-LD5-60-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296265
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-60-RDP-UNV-L93050-W2A1-U-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4586.0 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

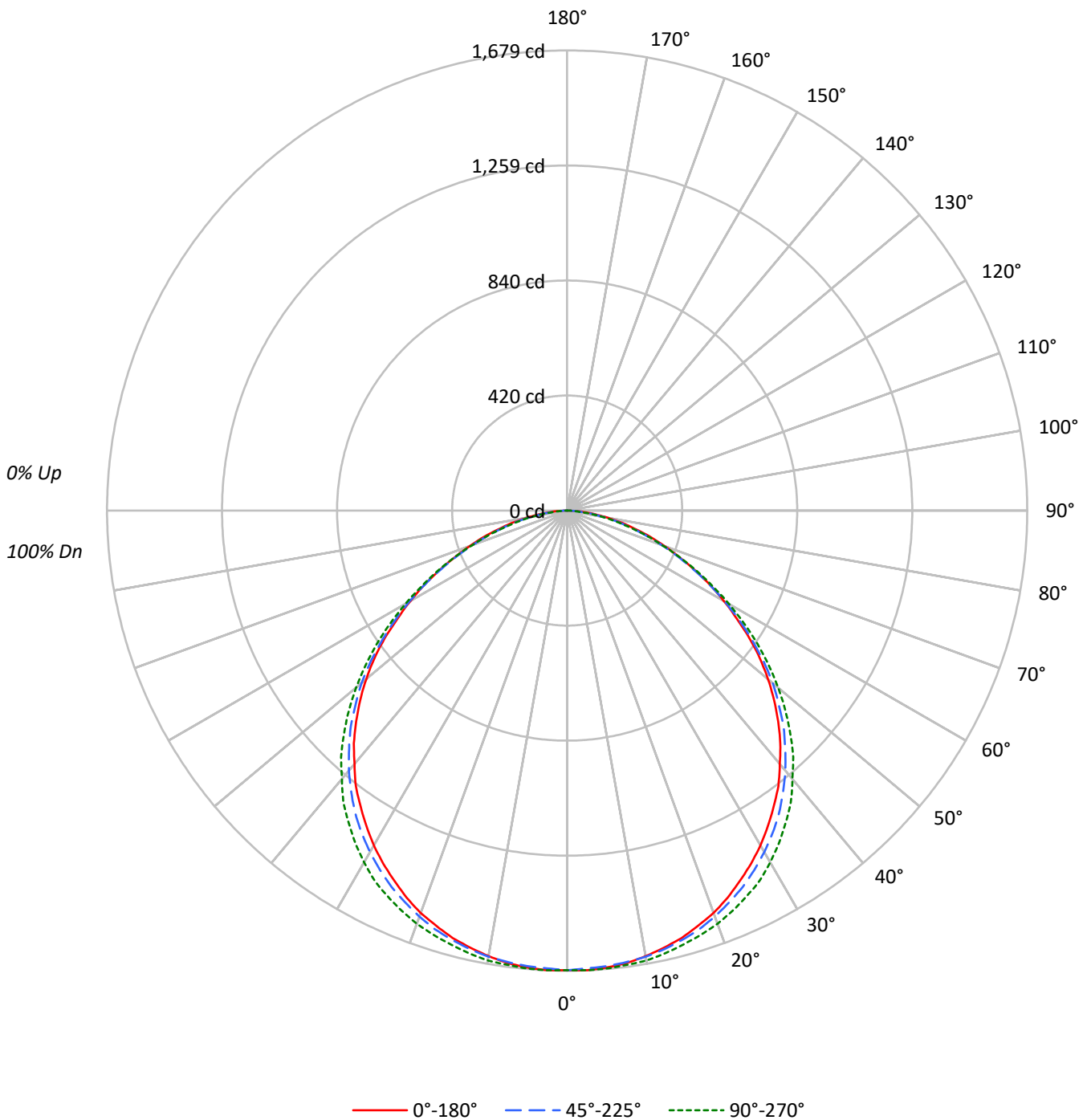
Input Watts (W): 44.361
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2257	2257	2257
5°	2260	2253	2265
10°	2256	2258	2277
15°	2249	2259	2283
20°	2237	2257	2297
25°	2214	2250	2304
30°	2192	2235	2303
35°	2160	2215	2283
40°	2121	2176	2246
45°	2072	2125	2191
50°	2003	2050	2105
55°	1906	1930	1988
60°	1779	1788	1835
65°	1634	1623	1662
70°	1485	1444	1451
75°	1320	1248	1239
80°	1146	1024	997
85°	940	726	563



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.1	3.5
10°-20°	458.5	10.0
20°-30°	699.9	15.3
30°-40°	843.8	18.4
40°-50°	860.5	18.8
50°-60°	736.4	16.1
60°-70°	507.3	11.1
70°-80°	260.0	5.7
80°-90°	60.5	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°	1317.5	28.7
0°-40°	2161.3	47.1
0°-60°	3758.2	81.9
0°-90°	4586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4586.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1677	1677	1677	1677	1677	
5°	1674	1670	1668	1674	1677	159
15°	1614	1613	1621	1634	1639	455
25°	1491	1496	1515	1541	1552	688
35°	1315	1320	1348	1378	1390	823
45°	1089	1091	1117	1145	1152	839
55°	812	807	823	840	847	725
65°	513	501	510	513	522	510
75°	254	244	240	240	238	274
85°	61	54	47	42	36	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1677.1	1677.1	1677.1	1677.1	1677.1
2.5°	1678.9	1675.4	1671.9	1675.4	1678.9
5°	1673.6	1670.2	1668.4	1673.6	1677.1
7.5°	1664.9	1661.5	1661.5	1668.4	1671.9
10°	1651.0	1649.3	1652.8	1659.7	1666.7
12.5°	1633.6	1633.6	1638.8	1647.5	1654.5
15°	1614.5	1612.7	1621.4	1633.6	1638.8
17.5°	1588.4	1590.1	1602.3	1616.2	1623.2
20°	1562.3	1564.0	1576.2	1595.3	1604.0
22.5°	1529.2	1532.7	1546.6	1571.0	1579.7
25°	1491.0	1496.2	1515.3	1541.4	1551.9
27.5°	1452.7	1457.9	1478.8	1508.4	1522.3
30°	1410.9	1417.9	1438.8	1470.1	1482.3
32.5°	1364.0	1369.2	1395.3	1426.6	1438.8
35°	1315.2	1320.5	1348.3	1377.9	1390.1
37.5°	1266.5	1266.5	1294.4	1329.2	1341.3
40°	1207.4	1209.1	1238.7	1271.8	1278.7
42.5°	1151.7	1151.7	1177.8	1209.1	1221.3
45°	1089.1	1090.8	1116.9	1144.8	1151.7
47.5°	1024.7	1024.7	1047.3	1073.4	1080.4
50°	956.9	953.4	979.5	1000.4	1005.6
52.5°	887.3	882.1	902.9	920.3	927.3
55°	812.5	807.2	822.9	840.3	847.3
57.5°	734.2	727.2	744.6	760.3	763.7
60°	661.1	650.7	664.6	673.3	682.0
62.5°	588.0	575.9	586.3	591.5	598.5
65°	513.2	501.0	509.7	513.2	521.9
67.5°	441.9	433.2	434.9	440.2	443.6
70°	377.5	367.1	367.1	367.1	368.8
72.5°	318.4	302.7	301.0	302.7	302.7
75°	254.0	243.6	240.1	240.1	238.3
77.5°	203.6	189.6	187.9	184.4	180.9
80°	147.9	135.7	132.2	130.5	128.7
82.5°	102.6	92.2	88.7	85.2	80.0
85°	60.9	53.9	47.0	41.8	36.5
87.5°	22.6	20.9	17.4	15.7	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)