

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: P296197

Luminaire Tested: **24RLN-LD5-60-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296197
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-L82765-W2A1-U-2700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4584.0 lumens
Efficiency: N/A
Efficacy: 106.0 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

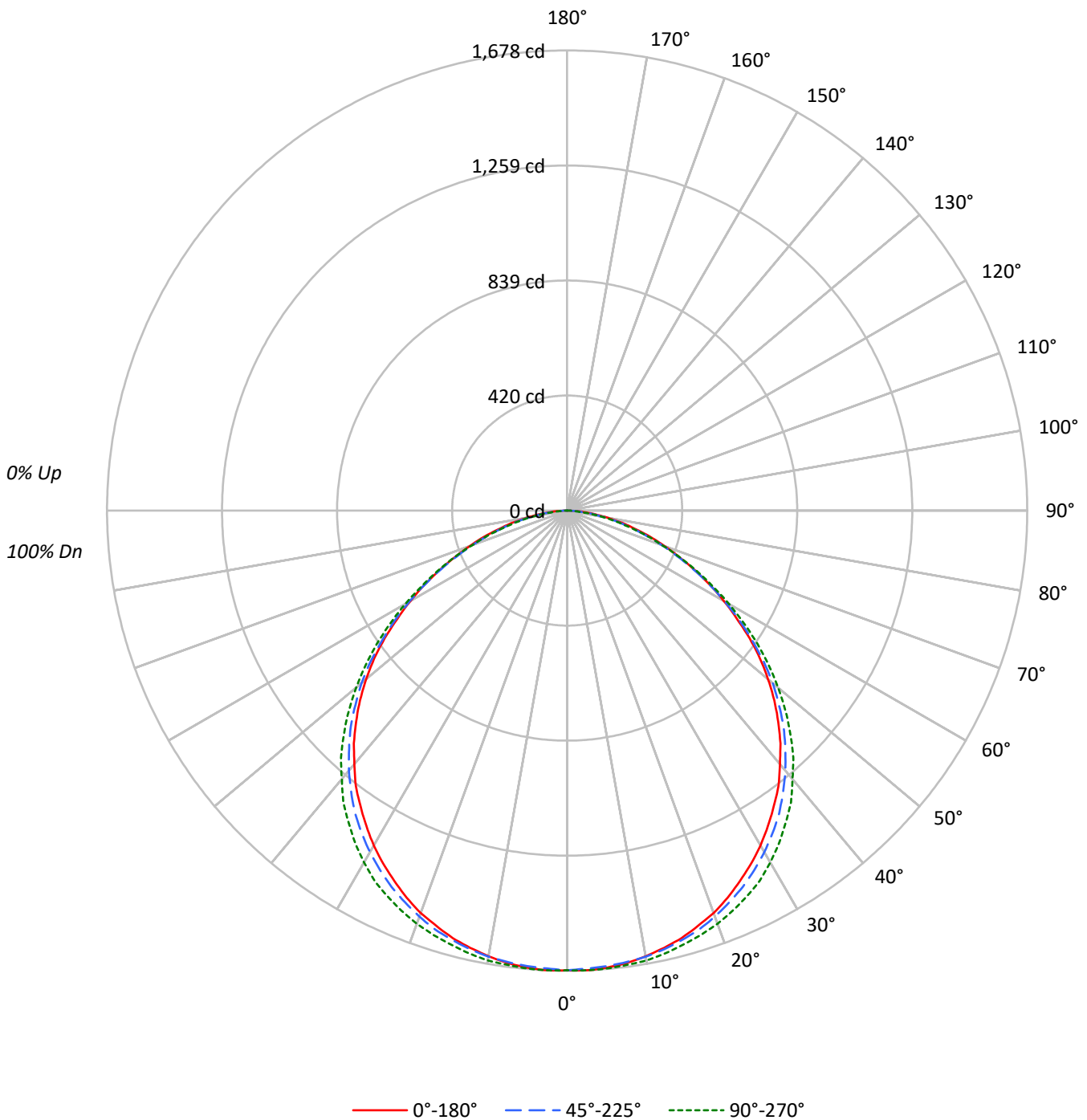
Input Watts (W): 43.245
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2256	2256	2256
5°	2259	2252	2264
10°	2255	2257	2276
15°	2248	2258	2282
20°	2236	2256	2296
25°	2212	2249	2303
30°	2191	2234	2302
35°	2159	2214	2282
40°	2120	2175	2245
45°	2071	2124	2191
50°	2002	2049	2104
55°	1905	1929	1987
60°	1778	1788	1834
65°	1633	1622	1661
70°	1485	1443	1450
75°	1320	1248	1238
80°	1145	1024	997
85°	940	726	563



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.0	3.5
10°-20°	458.3	10.0
20°-30°	699.6	15.3
30°-40°	843.4	18.4
40°-50°	860.1	18.8
50°-60°	736.1	16.1
60°-70°	507.0	11.1
70°-80°	259.9	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°	1316.9	28.7
0°-40°	2160.3	47.1
0°-60°	3756.5	81.9
0°-90°	4584.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4584.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1676	1676	1676	1676	1676	
5°	1673	1669	1668	1673	1676	159
15°	1614	1612	1621	1633	1638	455
25°	1490	1496	1515	1541	1551	687
35°	1315	1320	1348	1377	1390	822
45°	1089	1090	1116	1144	1151	839
55°	812	807	822	840	847	724
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°	1676.4	1676.4	1676.4	1676.4	1676.4
2.5°	1678.1	1674.6	1671.2	1674.6	1678.1
5°	1672.9	1669.4	1667.7	1672.9	1676.4
7.5°	1664.2	1660.7	1660.7	1667.7	1671.2
10°	1650.3	1648.6	1652.0	1659.0	1666.0
12.5°	1632.9	1632.9	1638.1	1646.8	1653.8
15°	1613.8	1612.0	1620.7	1632.9	1638.1
17.5°	1587.7	1589.4	1601.6	1615.5	1622.5
20°	1561.6	1563.4	1575.5	1594.7	1603.3
22.5°	1528.6	1532.1	1546.0	1570.3	1579.0
25°	1490.3	1495.5	1514.7	1540.7	1551.2
27.5°	1452.1	1457.3	1478.1	1507.7	1521.6
30°	1410.3	1417.3	1438.1	1469.4	1481.6
32.5°	1363.4	1368.6	1394.7	1426.0	1438.1
35°	1314.7	1319.9	1347.7	1377.3	1389.5
37.5°	1266.0	1266.0	1293.8	1328.6	1340.8
40°	1206.9	1208.6	1238.2	1271.2	1278.2
42.5°	1151.2	1151.2	1177.3	1208.6	1220.8
45°	1088.6	1090.3	1116.4	1144.3	1151.2
47.5°	1024.3	1024.3	1046.9	1073.0	1079.9
50°	956.4	953.0	979.1	999.9	1005.1
52.5°	886.9	881.7	902.5	919.9	926.9
55°	812.1	806.9	822.5	839.9	846.9
57.5°	733.9	726.9	744.3	759.9	763.4
60°	660.8	650.4	664.3	673.0	681.7
62.5°	587.8	575.6	586.0	591.3	598.2
65°	513.0	500.8	509.5	513.0	521.7
67.5°	441.7	433.0	434.7	440.0	443.4
70°	377.4	366.9	366.9	366.9	368.7
72.5°	318.2	302.6	300.8	302.6	302.6
75°	253.9	243.5	240.0	240.0	238.2
77.5°	203.5	189.5	187.8	184.3	180.9
80°	147.8	135.6	132.2	130.4	128.7
82.5°	102.6	92.2	88.7	85.2	80.0
85°	60.9	53.9	47.0	41.7	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)