

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: P296026

Luminaire Tested: **24RLN-LD5-42-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296026
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-42-UNV-L92765-W2A1-U-5000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3895.0 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

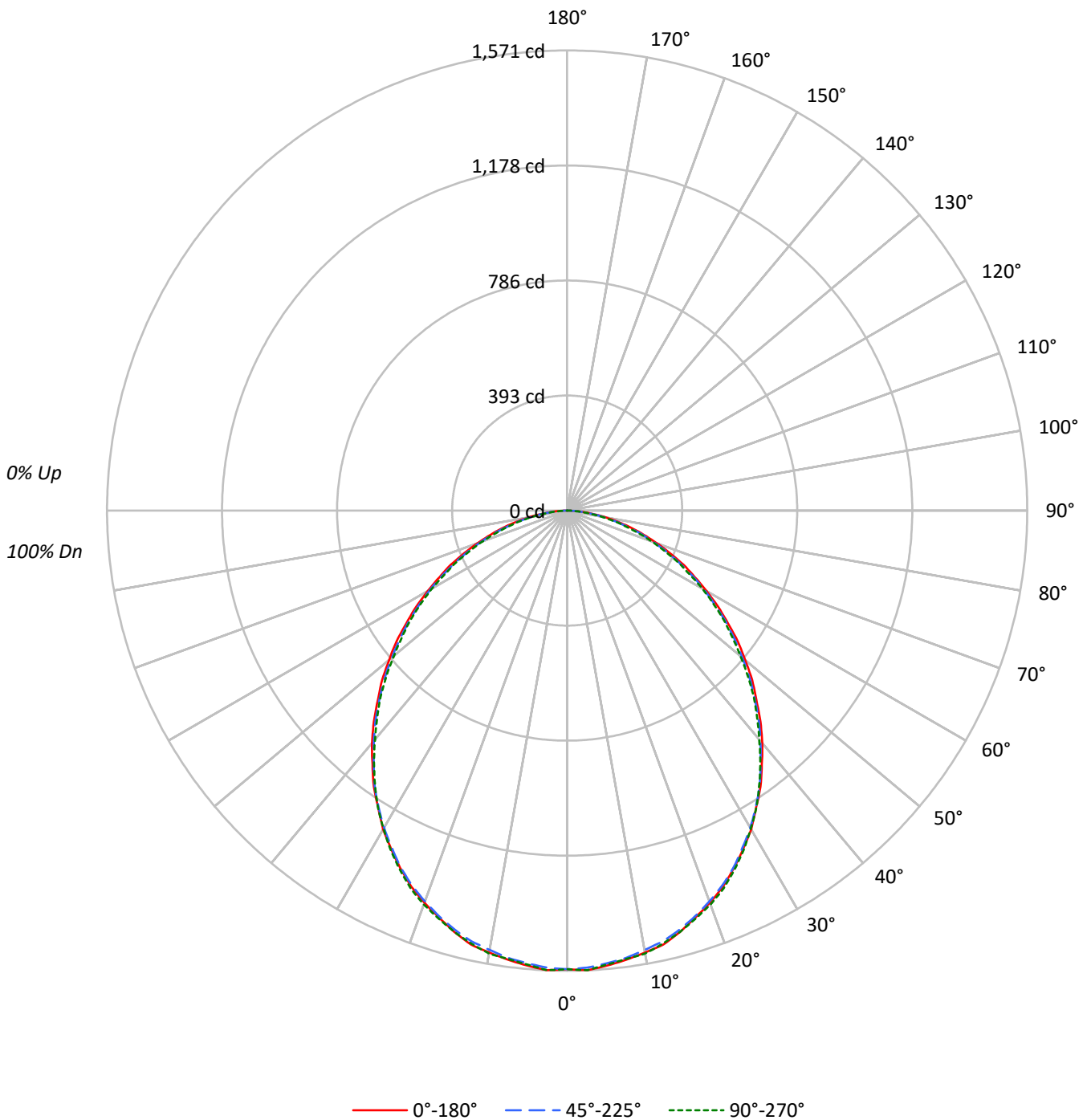
Input Watts (W): 29.76
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2107	2107	2107
5°	2106	2096	2101
10°	2093	2081	2098
15°	2074	2064	2074
20°	2040	2033	2049
25°	2000	1996	2007
30°	1952	1943	1948
35°	1891	1882	1878
40°	1821	1803	1792
45°	1738	1721	1714
50°	1660	1633	1615
55°	1571	1548	1533
60°	1478	1451	1434
65°	1396	1344	1332
70°	1281	1231	1206
75°	1176	1104	1058
80°	1032	964	906
85°	834	777	659



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.7	3.8
10°-20°	418.8	10.8
20°-30°	619.5	15.9
30°-40°	715.0	18.4
40°-50°	698.3	17.9
50°-60°	589.7	15.1
60°-70°	420.0	10.8
70°-80°	227.4	5.8
80°-90°	58.7	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°	1186.0	30.4
0°-40°	1901.0	48.8
0°-60°	3188.9	81.9
0°-90°	3895.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3895.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1566	1566	1566	1566	1566	
5°	1559	1559	1552	1556	1556	148
15°	1489	1483	1482	1488	1489	419
25°	1347	1340	1344	1350	1352	620
35°	1151	1142	1146	1142	1144	718
45°	914	906	905	901	901	706
55°	670	661	660	653	653	600
65°	438	430	422	417	418	432
75°	226	219	212	207	204	239
85°	54	53	50	44	43	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1565.7	1565.7	1565.7	1565.7	1565.7
2.5°	1570.7	1564.4	1561.9	1563.2	1570.7
5°	1559.4	1559.4	1551.9	1555.6	1555.6
7.5°	1546.8	1548.1	1540.5	1546.8	1544.3
10°	1531.8	1528.0	1523.0	1533.0	1535.5
12.5°	1517.9	1509.1	1506.6	1512.9	1514.2
15°	1489.0	1482.7	1481.5	1487.8	1489.0
17.5°	1456.4	1457.6	1452.6	1461.4	1460.1
20°	1424.9	1422.4	1419.9	1430.0	1431.2
22.5°	1389.8	1382.2	1384.7	1393.5	1396.0
25°	1347.0	1339.5	1344.5	1349.6	1352.1
27.5°	1301.8	1298.0	1296.8	1303.1	1305.6
30°	1256.6	1250.3	1250.3	1257.8	1254.1
32.5°	1201.3	1196.2	1198.8	1201.3	1202.5
35°	1151.0	1142.2	1146.0	1142.2	1143.5
37.5°	1092.0	1085.7	1084.4	1083.2	1083.2
40°	1036.7	1031.6	1026.6	1026.6	1020.3
42.5°	976.4	970.1	967.6	963.8	960.0
45°	913.5	906.0	904.7	901.0	901.0
47.5°	857.0	845.7	844.4	836.9	836.9
50°	792.9	785.4	780.3	775.3	771.5
52.5°	735.1	727.6	720.0	715.0	711.2
55°	669.7	661.0	659.7	653.4	653.4
57.5°	610.7	603.2	598.1	590.6	591.8
60°	549.1	541.6	539.1	532.8	532.8
62.5°	491.3	485.0	481.3	475.0	470.0
65°	438.5	429.7	422.2	417.2	418.4
67.5°	380.7	370.7	366.9	361.9	358.1
70°	325.5	319.2	312.9	306.6	306.6
72.5°	273.9	267.6	263.9	256.3	253.8
75°	226.2	218.6	212.4	207.3	203.6
77.5°	178.4	170.9	167.1	160.8	160.8
80°	133.2	128.2	124.4	121.9	116.9
82.5°	91.7	89.2	85.4	81.7	77.9
85°	54.0	52.8	50.3	44.0	42.7
87.5°	21.4	21.4	18.8	17.6	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)