

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: P295877

Luminaire Tested: **24RLN-LD5-36-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295877
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-LD5-36-UNV-L82765-W2A1-U-5000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3782.0 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

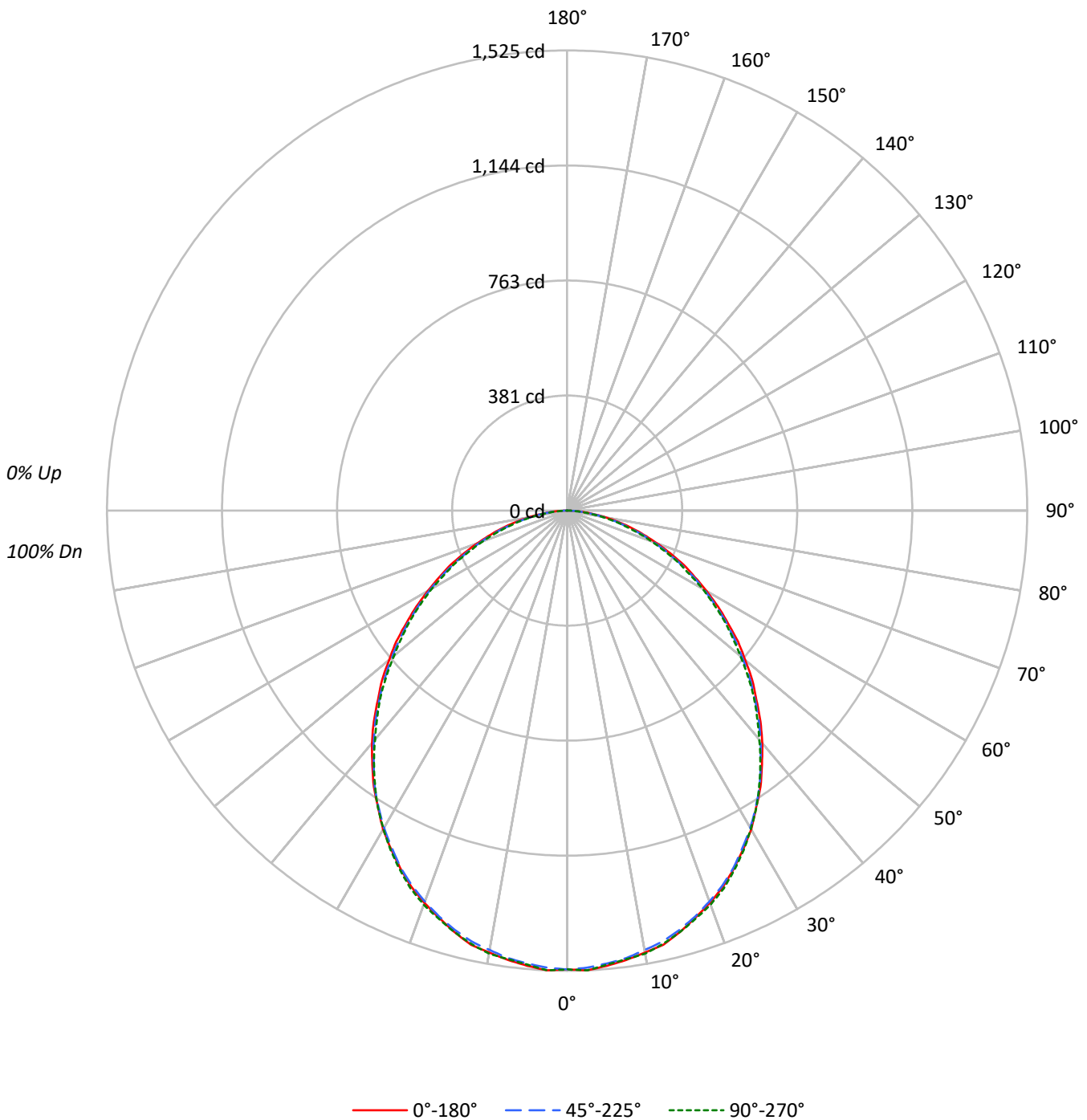
Input Watts (W): 25.761
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2046	2046	2046
5°	2045	2035	2040
10°	2032	2020	2037
15°	2014	2004	2014
20°	1981	1974	1990
25°	1942	1938	1949
30°	1896	1886	1892
35°	1836	1828	1824
40°	1768	1751	1740
45°	1688	1672	1665
50°	1612	1586	1568
55°	1525	1503	1488
60°	1435	1408	1392
65°	1356	1305	1294
70°	1243	1195	1171
75°	1142	1072	1028
80°	1002	936	879
85°	810	753	641



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.4	3.8
10°-20°	406.6	10.8
20°-30°	601.5	15.9
30°-40°	694.2	18.4
40°-50°	678.0	17.9
50°-60°	572.6	15.1
60°-70°	407.8	10.8
70°-80°	220.8	5.8
80°-90°	57.0	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°	1151.6	30.4
0°-40°	1845.8	48.8
0°-60°	3096.4	81.9
0°-90°	3782.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3782.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1520	1520	1520	1520	1520	
5°	1514	1514	1507	1510	1510	144
15°	1446	1440	1438	1445	1446	407
25°	1308	1301	1306	1310	1313	602
35°	1118	1109	1113	1109	1110	697
45°	887	880	878	875	875	686
55°	650	642	641	634	634	583
65°	426	417	410	405	406	420
75°	220	212	206	201	198	232
85°	52	51	49	43	42	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1520.3	1520.3	1520.3	1520.3	1520.3
2.5°	1525.1	1519.0	1516.6	1517.8	1525.1
5°	1514.2	1514.2	1506.8	1510.5	1510.5
7.5°	1502.0	1503.2	1495.9	1502.0	1499.5
10°	1487.3	1483.7	1478.8	1488.5	1491.0
12.5°	1473.9	1465.4	1462.9	1469.0	1470.2
15°	1445.8	1439.7	1438.5	1444.6	1445.8
17.5°	1414.1	1415.3	1410.4	1419.0	1417.8
20°	1383.6	1381.2	1378.7	1388.5	1389.7
22.5°	1349.4	1342.1	1344.6	1353.1	1355.5
25°	1308.0	1300.6	1305.5	1310.4	1312.8
27.5°	1264.0	1260.4	1259.2	1265.3	1267.7
30°	1220.1	1214.0	1214.0	1221.3	1217.7
32.5°	1166.4	1161.5	1164.0	1166.4	1167.6
35°	1117.6	1109.1	1112.7	1109.1	1110.3
37.5°	1060.3	1054.2	1053.0	1051.7	1051.7
40°	1006.6	1001.7	996.8	996.8	990.7
42.5°	948.0	941.9	939.5	935.8	932.2
45°	887.0	879.7	878.5	874.8	874.8
47.5°	832.1	821.1	819.9	812.6	812.6
50°	769.9	762.6	757.7	752.8	749.1
52.5°	713.8	706.4	699.1	694.2	690.6
55°	650.3	641.8	640.6	634.5	634.5
57.5°	593.0	585.7	580.8	573.5	574.7
60°	533.2	525.9	523.4	517.3	517.3
62.5°	477.1	471.0	467.3	461.2	456.3
65°	425.8	417.3	410.0	405.1	406.3
67.5°	369.7	359.9	356.3	351.4	347.7
70°	316.0	309.9	303.8	297.7	297.7
72.5°	266.0	259.9	256.2	248.9	246.5
75°	219.6	212.3	206.2	201.3	197.7
77.5°	173.3	165.9	162.3	156.2	156.2
80°	129.3	124.5	120.8	118.4	113.5
82.5°	89.1	86.6	83.0	79.3	75.6
85°	52.5	51.2	48.8	42.7	41.5
87.5°	20.7	20.7	18.3	17.1	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)