

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: P296322

Luminaire Tested: **24RLN-LD5-50-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296322
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-LD5-50-RDP-UNV-L92765-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: 3655.0 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

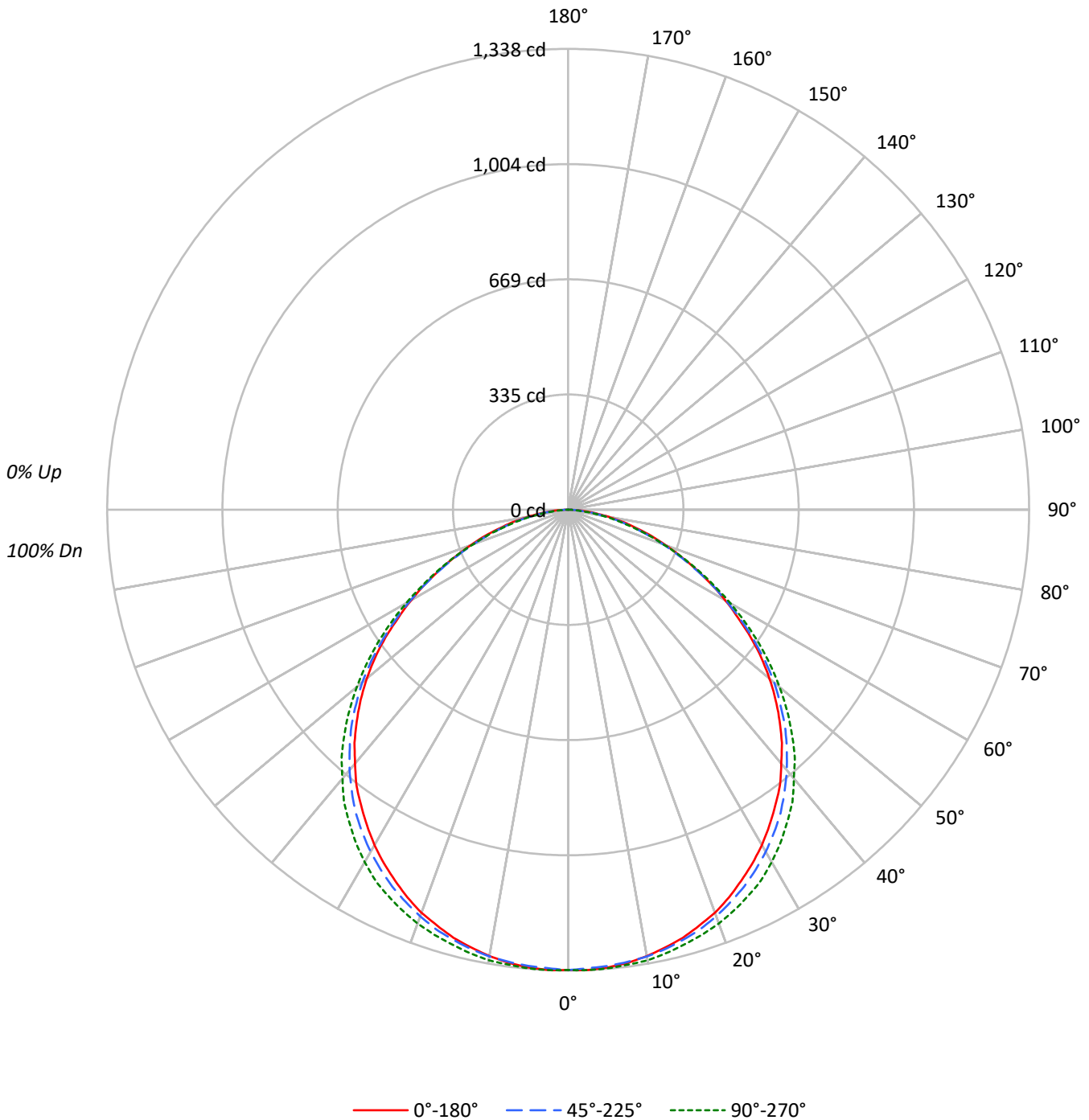
Input Watts (W): 35.34
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1798	1798	1798
5°	1802	1796	1805
10°	1798	1800	1815
15°	1792	1800	1819
20°	1783	1799	1830
25°	1764	1793	1836
30°	1747	1782	1835
35°	1722	1765	1820
40°	1690	1734	1790
45°	1652	1694	1747
50°	1596	1634	1677
55°	1519	1538	1584
60°	1418	1425	1463
65°	1302	1294	1324
70°	1184	1151	1157
75°	1052	994	988
80°	914	817	795
85°	749	577	449



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.8	3.5
10°-20°	365.4	10.0
20°-30°	557.8	15.3
30°-40°	672.5	18.4
40°-50°	685.8	18.8
50°-60°	586.9	16.1
60°-70°	404.3	11.1
70°-80°	207.3	5.7
80°-90°	48.2	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°	1050.0	28.7
0°-40°	1722.5	47.1
0°-60°	2995.2	81.9
0°-90°	3655.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3655.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1337	1337	1337	1337	1337	
5°	1334	1331	1330	1334	1337	127
15°	1287	1285	1292	1302	1306	363
25°	1188	1192	1208	1228	1237	548
35°	1048	1052	1075	1098	1108	656
45°	868	869	890	912	918	669
55°	648	643	656	670	675	578
65°	409	399	406	409	416	406
75°	202	194	191	191	190	218
85°	48	43	37	33	29	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1336.6	1336.6	1336.6	1336.6	1336.6
2.5°	1338.0	1335.3	1332.5	1335.3	1338.0
5°	1333.9	1331.1	1329.7	1333.9	1336.6
7.5°	1326.9	1324.2	1324.2	1329.7	1332.5
10°	1315.8	1314.5	1317.2	1322.8	1328.3
12.5°	1302.0	1302.0	1306.1	1313.1	1318.6
15°	1286.7	1285.3	1292.3	1302.0	1306.1
17.5°	1265.9	1267.3	1277.0	1288.1	1293.7
20°	1245.1	1246.5	1256.2	1271.5	1278.4
22.5°	1218.8	1221.6	1232.7	1252.1	1259.0
25°	1188.3	1192.4	1207.7	1228.5	1236.8
27.5°	1157.8	1161.9	1178.6	1202.2	1213.2
30°	1124.5	1130.0	1146.7	1171.6	1181.4
32.5°	1087.1	1091.2	1112.0	1137.0	1146.7
35°	1048.2	1052.4	1074.6	1098.2	1107.9
37.5°	1009.4	1009.4	1031.6	1059.3	1069.0
40°	962.3	963.7	987.2	1013.6	1019.1
42.5°	917.9	917.9	938.7	963.7	973.4
45°	868.0	869.4	890.2	912.4	917.9
47.5°	816.7	816.7	834.7	855.5	861.1
50°	762.6	759.8	780.6	797.3	801.4
52.5°	707.1	703.0	719.6	733.5	739.0
55°	647.5	643.4	655.8	669.7	675.3
57.5°	585.1	579.6	593.4	605.9	608.7
60°	526.9	518.6	529.7	536.6	543.5
62.5°	468.7	459.0	467.3	471.4	477.0
65°	409.0	399.3	406.3	409.0	416.0
67.5°	352.2	345.3	346.6	350.8	353.6
70°	300.9	292.6	292.6	292.6	294.0
72.5°	253.7	241.3	239.9	241.3	241.3
75°	202.4	194.1	191.3	191.3	190.0
77.5°	162.2	151.1	149.7	147.0	144.2
80°	117.9	108.2	105.4	104.0	102.6
82.5°	81.8	73.5	70.7	67.9	63.8
85°	48.5	43.0	37.4	33.3	29.1
87.5°	18.0	16.6	13.9	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)