

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: P296182

Luminaire Tested: **24RLN-LD5-50-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296182
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-L82765-W2A1-U-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4131.0 lumens
Efficiency: N/A
Efficacy: 116.9 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

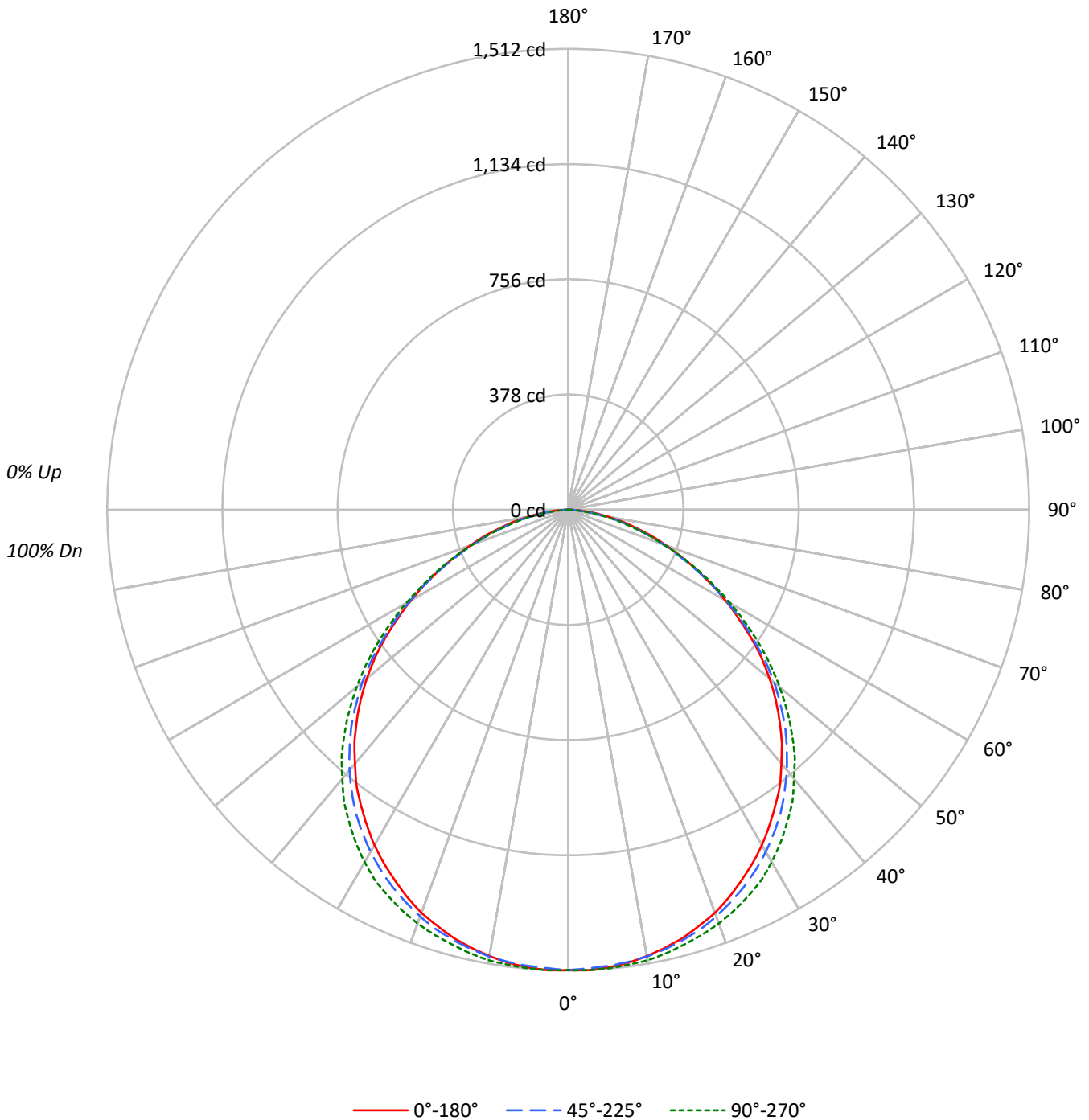
Input Watts (W): 35.34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2033	2033	2033
5°	2036	2030	2040
10°	2032	2034	2051
15°	2026	2035	2056
20°	2015	2033	2069
25°	1994	2026	2075
30°	1975	2014	2074
35°	1946	1995	2057
40°	1910	1960	2023
45°	1867	1914	1974
50°	1804	1847	1896
55°	1717	1739	1790
60°	1602	1611	1653
65°	1472	1462	1497
70°	1338	1301	1307
75°	1189	1124	1116
80°	1032	923	899
85°	846	653	508



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.3	3.5
10°-20°	413.0	10.0
20°-30°	630.5	15.3
30°-40°	760.1	18.4
40°-50°	775.1	18.8
50°-60°	663.3	16.1
60°-70°	456.9	11.1
70°-80°	234.3	5.7
80°-90°	54.5	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°	1186.8	28.7
0°-40°	1946.9	47.1
0°-60°	3385.3	81.9
0°-90°	4131.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4131.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1511	1511	1511	1511	1511	
5°	1508	1504	1503	1508	1511	143
15°	1454	1453	1461	1472	1476	410
25°	1343	1348	1365	1388	1398	619
35°	1185	1190	1214	1241	1252	741
45°	981	983	1006	1031	1037	756
55°	732	727	741	757	763	653
65°	462	451	459	462	470	459
75°	229	219	216	216	215	247
85°	55	49	42	38	33	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1510.7	1510.7	1510.7	1510.7	1510.7
2.5°	1512.3	1509.2	1506.0	1509.2	1512.3
5°	1507.6	1504.5	1502.9	1507.6	1510.7
7.5°	1499.8	1496.6	1496.6	1502.9	1506.0
10°	1487.2	1485.6	1488.8	1495.1	1501.3
12.5°	1471.5	1471.5	1476.2	1484.1	1490.3
15°	1454.3	1452.7	1460.6	1471.5	1476.2
17.5°	1430.8	1432.4	1443.3	1455.9	1462.1
20°	1407.3	1408.9	1419.8	1437.1	1444.9
22.5°	1377.5	1380.6	1393.2	1415.1	1423.0
25°	1343.0	1347.7	1365.0	1388.5	1397.9
27.5°	1308.6	1313.3	1332.1	1358.7	1371.2
30°	1271.0	1277.2	1296.0	1324.2	1335.2
32.5°	1228.6	1233.3	1256.8	1285.1	1296.0
35°	1184.8	1189.5	1214.5	1241.2	1252.1
37.5°	1140.9	1140.9	1166.0	1197.3	1208.3
40°	1087.6	1089.2	1115.8	1145.6	1151.8
42.5°	1037.4	1037.4	1061.0	1089.2	1100.1
45°	981.0	982.6	1006.1	1031.2	1037.4
47.5°	923.0	923.0	943.4	966.9	973.2
50°	861.9	858.8	882.3	901.1	905.8
52.5°	799.2	794.5	813.3	829.0	835.3
55°	731.9	727.2	741.3	756.9	763.2
57.5°	661.3	655.1	670.7	684.8	688.0
60°	595.5	586.1	598.6	606.5	614.3
62.5°	529.7	518.7	528.1	532.8	539.1
65°	462.3	451.3	459.2	462.3	470.1
67.5°	398.1	390.2	391.8	396.5	399.6
70°	340.1	330.7	330.7	330.7	332.2
72.5°	286.8	272.7	271.1	272.7	272.7
75°	228.8	219.4	216.3	216.3	214.7
77.5°	183.4	170.8	169.3	166.1	163.0
80°	133.2	122.2	119.1	117.5	116.0
82.5°	92.5	83.1	79.9	76.8	72.1
85°	54.8	48.6	42.3	37.6	32.9
87.5°	20.4	18.8	15.7	14.1	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)