

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: P296156

Luminaire Tested: **24RLN-LD5-36-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296156
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-LD5-36-RDP-UNV-L82765-W2A1-U-4500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3094.0 lumens
Efficiency: N/A
Efficacy: 120.5 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

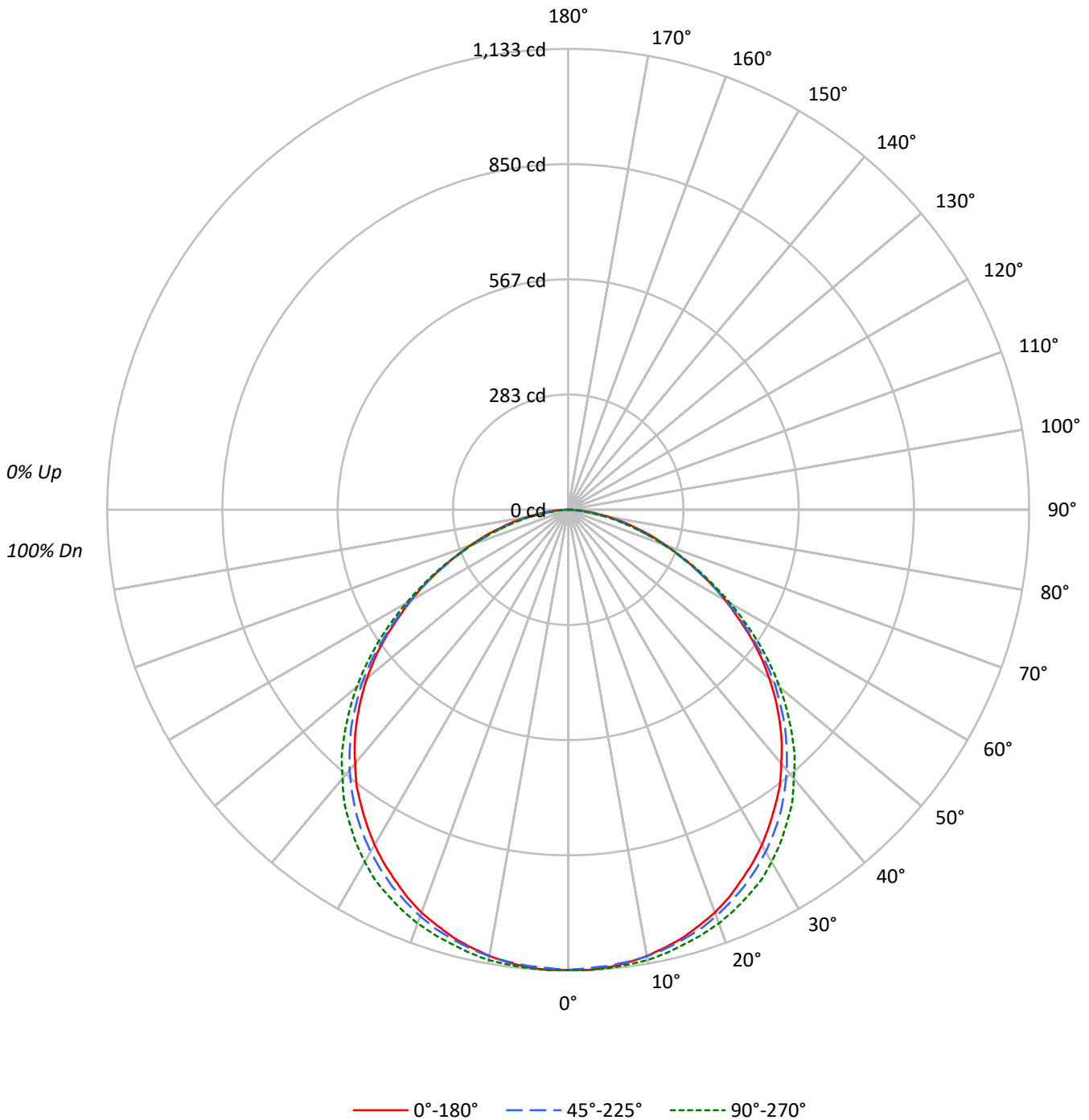
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1522	1522	1522
5°	1525	1520	1528
10°	1522	1524	1536
15°	1517	1524	1540
20°	1509	1523	1550
25°	1493	1518	1554
30°	1479	1508	1554
35°	1457	1494	1540
40°	1431	1468	1515
45°	1398	1434	1478
50°	1351	1383	1420
55°	1286	1302	1341
60°	1200	1207	1238
65°	1103	1095	1121
70°	1002	974	979
75°	891	842	836
80°	773	691	673
85°	634	489	380



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	3.5
10°-20°	309.4	10.0
20°-30°	472.2	15.3
30°-40°	569.3	18.4
40°-50°	580.5	18.8
50°-60°	496.8	16.1
60°-70°	342.2	11.1
70°-80°	175.4	5.7
80°-90°	40.8	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°	888.9	28.7
0°-40°	1458.1	47.1
0°-60°	2535.5	81.9
0°-90°	3094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3094.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1132	1132	1132	1132	1132	
5°	1129	1127	1126	1129	1132	107
15°	1089	1088	1094	1102	1106	307
25°	1006	1009	1022	1040	1047	464
35°	887	891	910	930	938	555
45°	735	736	754	772	777	566
55°	548	545	555	567	572	489
65°	346	338	344	346	352	344
75°	171	164	162	162	161	185
85°	41	36	32	28	25	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1131.5	1131.5	1131.5	1131.5	1131.5
2.5°	1132.7	1130.3	1128.0	1130.3	1132.7
5°	1129.1	1126.8	1125.6	1129.1	1131.5
7.5°	1123.3	1120.9	1120.9	1125.6	1128.0
10°	1113.9	1112.7	1115.1	1119.8	1124.4
12.5°	1102.1	1102.1	1105.7	1111.5	1116.2
15°	1089.2	1088.1	1093.9	1102.1	1105.7
17.5°	1071.6	1072.8	1081.0	1090.4	1095.1
20°	1054.0	1055.2	1063.4	1076.3	1082.2
22.5°	1031.7	1034.1	1043.5	1059.9	1065.8
25°	1005.9	1009.4	1022.3	1039.9	1047.0
27.5°	980.1	983.6	997.7	1017.6	1027.0
30°	951.9	956.6	970.7	991.8	1000.0
32.5°	920.2	923.7	941.3	962.5	970.7
35°	887.3	890.9	909.7	929.6	937.8
37.5°	854.5	854.5	873.3	896.7	905.0
40°	814.6	815.8	835.7	858.0	862.7
42.5°	777.0	777.0	794.6	815.8	824.0
45°	734.8	735.9	753.5	772.3	777.0
47.5°	691.3	691.3	706.6	724.2	728.9
50°	645.6	643.2	660.8	674.9	678.4
52.5°	598.6	595.1	609.2	620.9	625.6
55°	548.1	544.6	555.2	566.9	571.6
57.5°	495.3	490.6	502.4	512.9	515.3
60°	446.0	439.0	448.4	454.2	460.1
62.5°	396.7	388.5	395.6	399.1	403.8
65°	346.3	338.0	343.9	346.3	352.1
67.5°	298.1	292.3	293.4	297.0	299.3
70°	254.7	247.7	247.7	247.7	248.8
72.5°	214.8	204.2	203.1	204.2	204.2
75°	171.4	164.3	162.0	162.0	160.8
77.5°	137.3	127.9	126.8	124.4	122.1
80°	99.8	91.6	89.2	88.0	86.9
82.5°	69.3	62.2	59.9	57.5	54.0
85°	41.1	36.4	31.7	28.2	24.6
87.5°	15.3	14.1	11.7	10.6	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)