

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: P296306

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296306
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-LD5-42-RDP-UNV-L92765-W2A1-U-5000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3230.0 lumens
Efficiency: N/A
Efficacy: 108.5 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

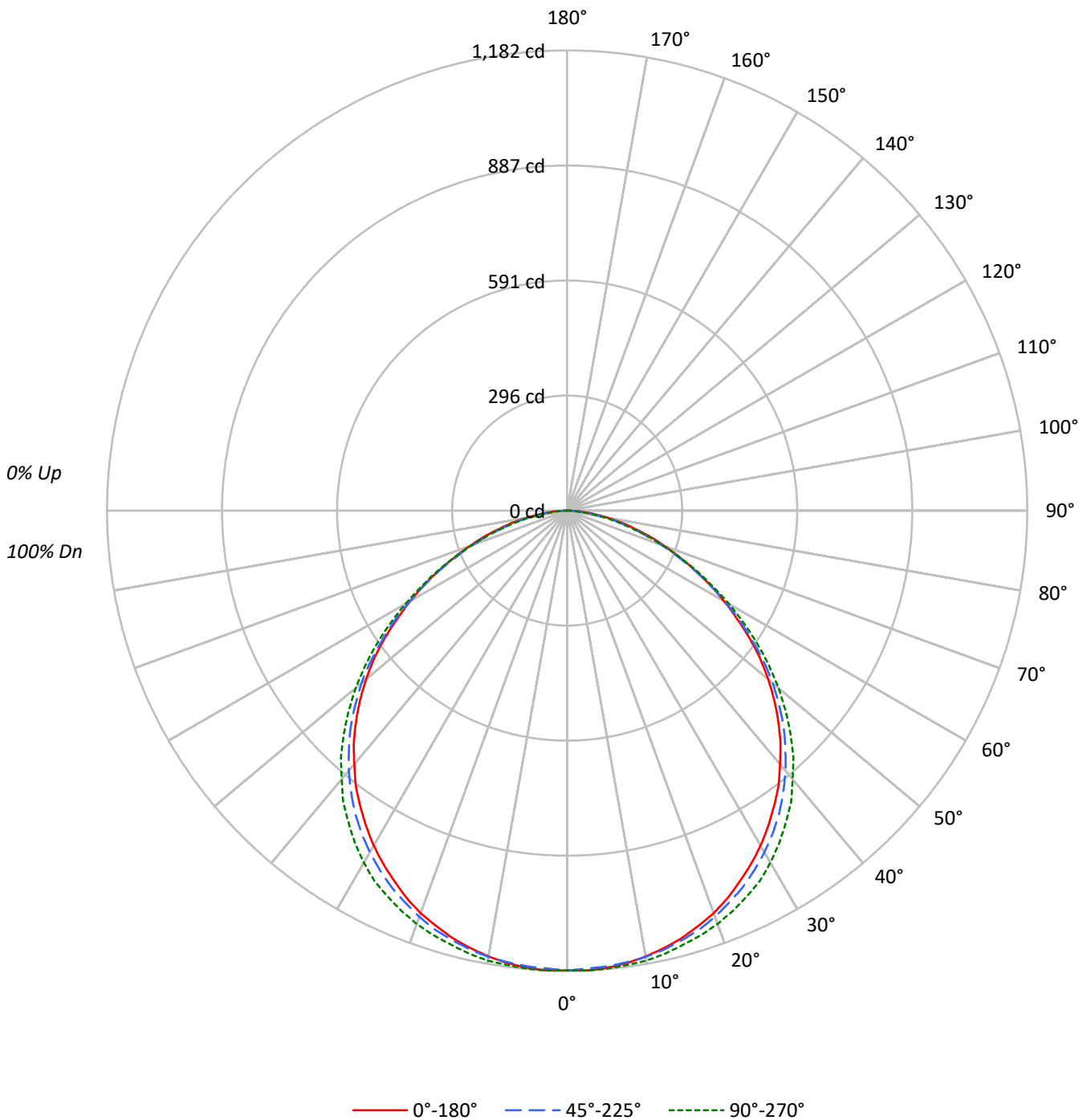
Input Watts (W): 29.76
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1589	1589	1589
5°	1592	1587	1595
10°	1589	1590	1604
15°	1584	1591	1608
20°	1576	1590	1618
25°	1559	1584	1623
30°	1544	1574	1622
35°	1522	1560	1608
40°	1494	1532	1582
45°	1460	1497	1544
50°	1411	1444	1482
55°	1342	1360	1400
60°	1253	1260	1292
65°	1151	1143	1170
70°	1046	1017	1022
75°	930	879	873
80°	807	721	703
85°	662	511	397



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.0	3.5
10°-20°	323.0	10.0
20°-30°	493.0	15.3
30°-40°	594.3	18.4
40°-50°	606.1	18.8
50°-60°	518.7	16.1
60°-70°	357.3	11.1
70°-80°	183.1	5.7
80°-90°	42.6	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°	927.9	28.7
0°-40°	1522.2	47.1
0°-60°	2646.9	81.9
0°-90°	3230.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3230.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1181	1181	1181	1181	1181	
5°	1179	1176	1175	1179	1181	112
15°	1137	1136	1142	1151	1154	321
25°	1050	1054	1067	1086	1093	484
35°	926	930	950	970	979	580
45°	767	768	787	806	811	591
55°	572	569	580	592	597	510
65°	362	353	359	362	368	359
75°	179	172	169	169	168	193
85°	43	38	33	29	26	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1181.2	1181.2	1181.2	1181.2	1181.2
2.5°	1182.4	1180.0	1177.5	1180.0	1182.4
5°	1178.8	1176.3	1175.1	1178.8	1181.2
7.5°	1172.6	1170.2	1170.2	1175.1	1177.5
10°	1162.8	1161.6	1164.1	1169.0	1173.9
12.5°	1150.6	1150.6	1154.3	1160.4	1165.3
15°	1137.1	1135.9	1142.0	1150.6	1154.3
17.5°	1118.7	1120.0	1128.5	1138.3	1143.2
20°	1100.4	1101.6	1110.2	1123.6	1129.8
22.5°	1077.1	1079.5	1089.3	1106.5	1112.6
25°	1050.1	1053.8	1067.3	1085.6	1093.0
27.5°	1023.2	1026.8	1041.5	1062.4	1072.2
30°	993.7	998.6	1013.4	1035.4	1044.0
32.5°	960.7	964.3	982.7	1004.8	1013.4
35°	926.4	930.0	949.6	970.5	979.0
37.5°	892.0	892.0	911.6	936.2	944.7
40°	850.4	851.6	872.4	895.7	900.6
42.5°	811.2	811.2	829.6	851.6	860.2
45°	767.1	768.3	786.7	806.3	811.2
47.5°	721.7	721.7	737.7	756.0	760.9
50°	673.9	671.5	689.9	704.6	708.2
52.5°	624.9	621.2	635.9	648.2	653.1
55°	572.2	568.6	579.6	591.8	596.7
57.5°	517.1	512.2	524.4	535.5	537.9
60°	465.6	458.3	468.1	474.2	480.3
62.5°	414.2	405.6	412.9	416.6	421.5
65°	361.5	352.9	359.0	361.5	367.6
67.5°	311.2	305.1	306.3	310.0	312.5
70°	265.9	258.5	258.5	258.5	259.8
72.5°	224.2	213.2	212.0	213.2	213.2
75°	178.9	171.5	169.1	169.1	167.9
77.5°	143.4	133.6	132.3	129.9	127.4
80°	104.2	95.6	93.1	91.9	90.7
82.5°	72.3	64.9	62.5	60.0	56.4
85°	42.9	38.0	33.1	29.4	25.7
87.5°	15.9	14.7	12.3	11.0	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)