

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: P296014

Luminaire Tested: **24RLN-LD5-36-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296014
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-L92765-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3143.0 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

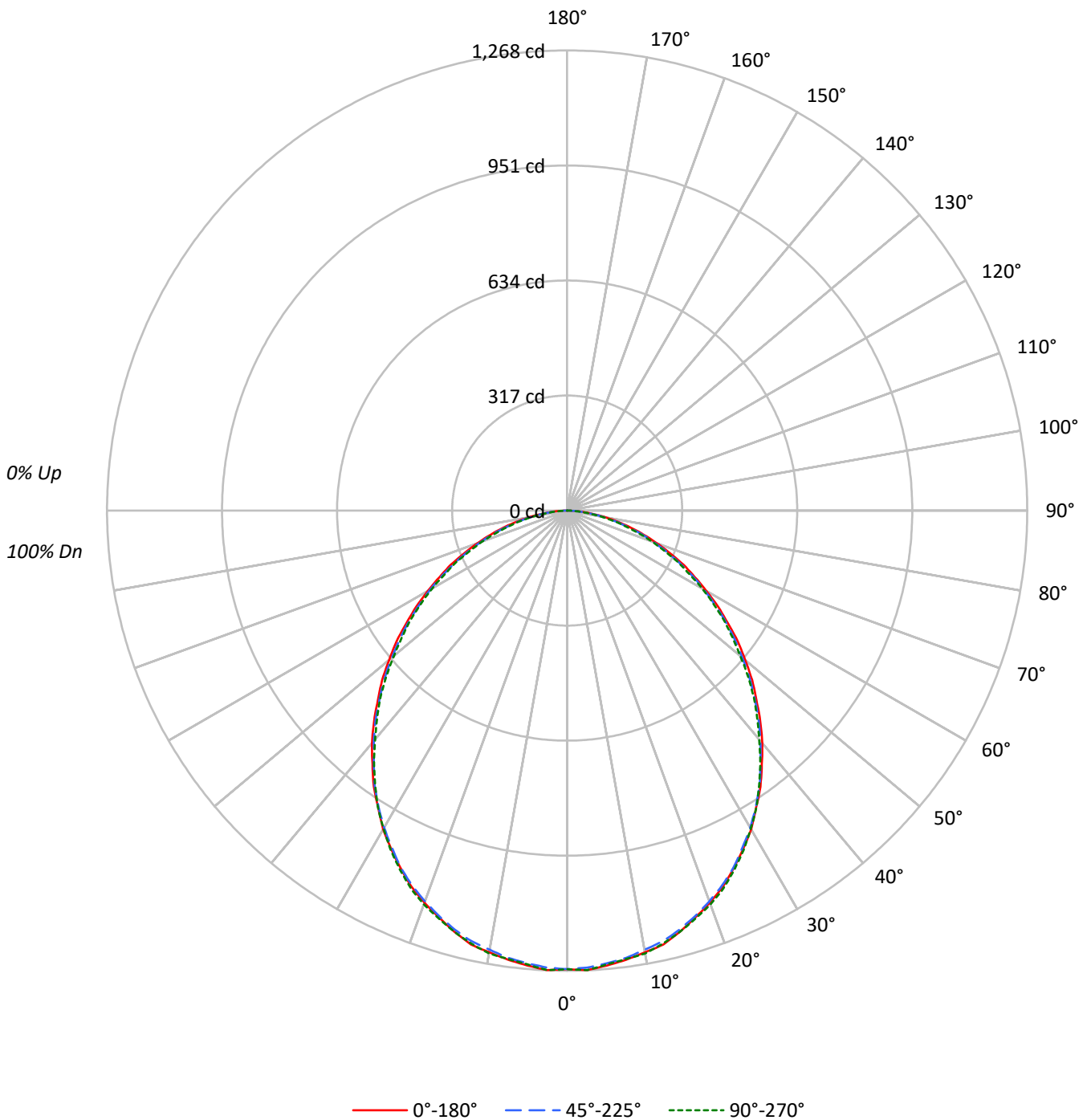
Input Watts (W): 25.296
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1700	1700	1700
5°	1699	1691	1695
10°	1689	1679	1693
15°	1674	1665	1674
20°	1646	1641	1654
25°	1614	1611	1620
30°	1575	1567	1572
35°	1526	1519	1516
40°	1469	1455	1446
45°	1403	1389	1383
50°	1339	1318	1303
55°	1268	1249	1237
60°	1192	1171	1157
65°	1127	1085	1075
70°	1033	993	973
75°	949	891	854
80°	833	778	731
85°	673	627	533



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.2	3.8
10°-20°	337.9	10.8
20°-30°	499.9	15.9
30°-40°	576.9	18.4
40°-50°	563.5	17.9
50°-60°	475.8	15.1
60°-70°	338.9	10.8
70°-80°	183.5	5.8
80°-90°	47.3	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°	957.0	30.4
0°-40°	1533.9	48.8
0°-60°	2573.2	81.9
0°-90°	3143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3143.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1263	1263	1263	1263	1263	
5°	1258	1258	1252	1255	1255	119
15°	1202	1196	1196	1200	1202	338
25°	1087	1081	1085	1089	1091	500
35°	929	922	925	922	923	580
45°	737	731	730	727	727	570
55°	540	533	532	527	527	485
65°	354	347	341	337	338	349
75°	182	176	171	167	164	193
85°	44	43	41	36	34	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1263.4	1263.4	1263.4	1263.4	1263.4
2.5°	1267.5	1262.4	1260.4	1261.4	1267.5
5°	1258.3	1258.3	1252.2	1255.3	1255.3
7.5°	1248.2	1249.2	1243.1	1248.2	1246.2
10°	1236.0	1233.0	1228.9	1237.0	1239.1
12.5°	1224.9	1217.8	1215.7	1220.8	1221.8
15°	1201.5	1196.5	1195.5	1200.5	1201.5
17.5°	1175.2	1176.2	1172.1	1179.2	1178.2
20°	1149.8	1147.8	1145.8	1153.9	1154.9
22.5°	1121.4	1115.4	1117.4	1124.5	1126.5
25°	1087.0	1080.9	1084.9	1089.0	1091.0
27.5°	1050.5	1047.4	1046.4	1051.5	1053.5
30°	1014.0	1008.9	1008.9	1015.0	1011.9
32.5°	969.3	965.3	967.3	969.3	970.4
35°	928.8	921.7	924.7	921.7	922.7
37.5°	881.1	876.1	875.0	874.0	874.0
40°	836.5	832.5	828.4	828.4	823.3
42.5°	787.8	782.8	780.8	777.7	774.7
45°	737.2	731.1	730.1	727.0	727.0
47.5°	691.5	682.4	681.4	675.3	675.3
50°	639.8	633.7	629.7	625.6	622.6
52.5°	593.2	587.1	581.0	576.9	573.9
55°	540.4	533.3	532.3	527.3	527.3
57.5°	492.8	486.7	482.6	476.6	477.6
60°	443.1	437.0	435.0	429.9	429.9
62.5°	396.5	391.4	388.3	383.3	379.2
65°	353.9	346.8	340.7	336.6	337.6
67.5°	307.2	299.1	296.1	292.0	289.0
70°	262.6	257.5	252.5	247.4	247.4
72.5°	221.0	216.0	212.9	206.8	204.8
75°	182.5	176.4	171.4	167.3	164.3
77.5°	144.0	137.9	134.9	129.8	129.8
80°	107.5	103.4	100.4	98.4	94.3
82.5°	74.0	72.0	68.9	65.9	62.9
85°	43.6	42.6	40.6	35.5	34.5
87.5°	17.2	17.2	15.2	14.2	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)