

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: P295881

Luminaire Tested: **24RLN-LD5-42-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295881
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-LD5-42-UNV-L82765-W2A1-U-2700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3867.0 lumens
Efficiency: N/A
Efficacy: 132.8 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

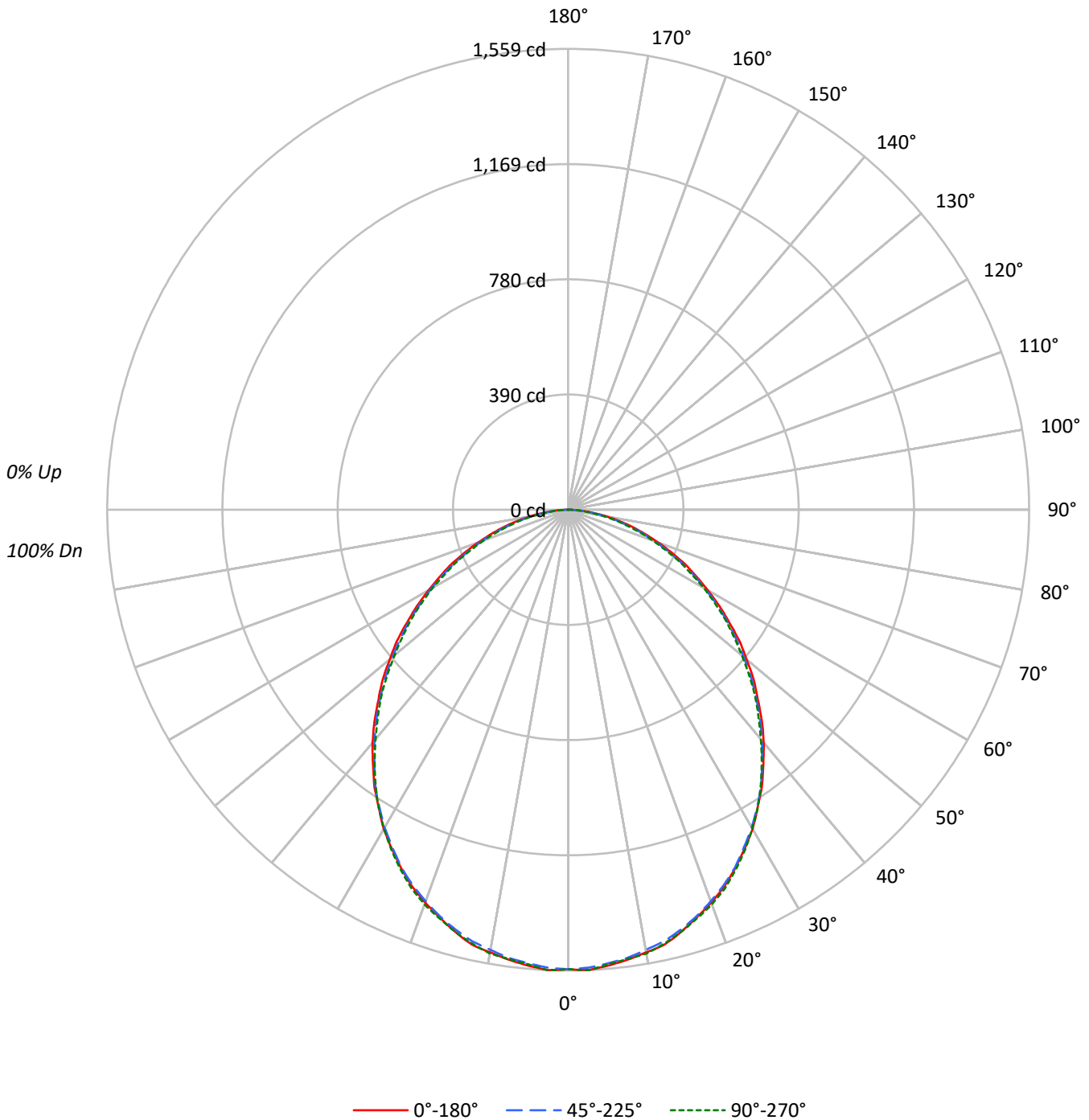
Input Watts (W): 29.109
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2091	2091	2091
5°	2091	2081	2086
10°	2078	2066	2083
15°	2059	2049	2059
20°	2026	2018	2035
25°	1985	1982	1993
30°	1938	1929	1934
35°	1877	1869	1865
40°	1808	1790	1779
45°	1726	1709	1702
50°	1648	1622	1603
55°	1560	1536	1522
60°	1467	1440	1424
65°	1386	1335	1323
70°	1271	1222	1197
75°	1168	1096	1051
80°	1024	957	899
85°	827	770	655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.7	3.8
10°-20°	415.8	10.8
20°-30°	615.0	15.9
30°-40°	709.8	18.4
40°-50°	693.3	17.9
50°-60°	585.4	15.1
60°-70°	417.0	10.8
70°-80°	225.8	5.8
80°-90°	58.3	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°	1177.5	30.4
0°-40°	1887.3	48.8
0°-60°	3166.0	81.9
0°-90°	3867.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3867.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1554	1554	1554	1554	1554	
5°	1548	1548	1541	1544	1544	147
15°	1478	1472	1471	1477	1478	416
25°	1337	1330	1335	1340	1342	616
35°	1143	1134	1138	1134	1135	713
45°	907	900	898	894	894	701
55°	665	656	655	649	649	596
65°	435	427	419	414	415	429
75°	225	217	211	206	202	238
85°	54	52	50	44	42	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1554.4	1554.4	1554.4	1554.4	1554.4
2.5°	1559.4	1553.2	1550.7	1551.9	1559.4
5°	1548.2	1548.2	1540.7	1544.4	1544.4
7.5°	1535.7	1537.0	1529.5	1535.7	1533.2
10°	1520.7	1517.0	1512.0	1522.0	1524.5
12.5°	1507.0	1498.3	1495.8	1502.0	1503.3
15°	1478.3	1472.1	1470.8	1477.1	1478.3
17.5°	1445.9	1447.1	1442.1	1450.9	1449.6
20°	1414.7	1412.2	1409.7	1419.7	1420.9
22.5°	1379.8	1372.3	1374.8	1383.5	1386.0
25°	1337.4	1329.9	1334.9	1339.8	1342.3
27.5°	1292.4	1288.7	1287.5	1293.7	1296.2
30°	1247.5	1241.3	1241.3	1248.8	1245.0
32.5°	1192.6	1187.6	1190.1	1192.6	1193.9
35°	1142.7	1134.0	1137.7	1134.0	1135.3
37.5°	1084.1	1077.9	1076.6	1075.4	1075.4
40°	1029.2	1024.2	1019.2	1019.2	1013.0
42.5°	969.3	963.1	960.6	956.9	953.1
45°	907.0	899.5	898.2	894.5	894.5
47.5°	850.8	839.6	838.3	830.9	830.9
50°	787.2	779.7	774.7	769.7	766.0
52.5°	729.8	722.3	714.8	709.8	706.1
55°	664.9	656.2	655.0	648.7	648.7
57.5°	606.3	598.8	593.8	586.3	587.6
60°	545.2	537.7	535.2	529.0	529.0
62.5°	487.8	481.5	477.8	471.6	466.6
65°	435.4	426.7	419.2	414.2	415.4
67.5°	378.0	368.0	364.3	359.3	355.5
70°	323.1	316.9	310.6	304.4	304.4
72.5°	272.0	265.7	262.0	254.5	252.0
75°	224.6	217.1	210.8	205.8	202.1
77.5°	177.1	169.7	165.9	159.7	159.7
80°	132.2	127.2	123.5	121.0	116.0
82.5°	91.1	88.6	84.8	81.1	77.3
85°	53.6	52.4	49.9	43.7	42.4
87.5°	21.2	21.2	18.7	17.5	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)