

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: P295875

Luminaire Tested: **24RLN-LD5-36-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295875
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-L82765-W2A1-U-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3666.0 lumens
Efficiency: N/A
Efficacy: 143.9 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

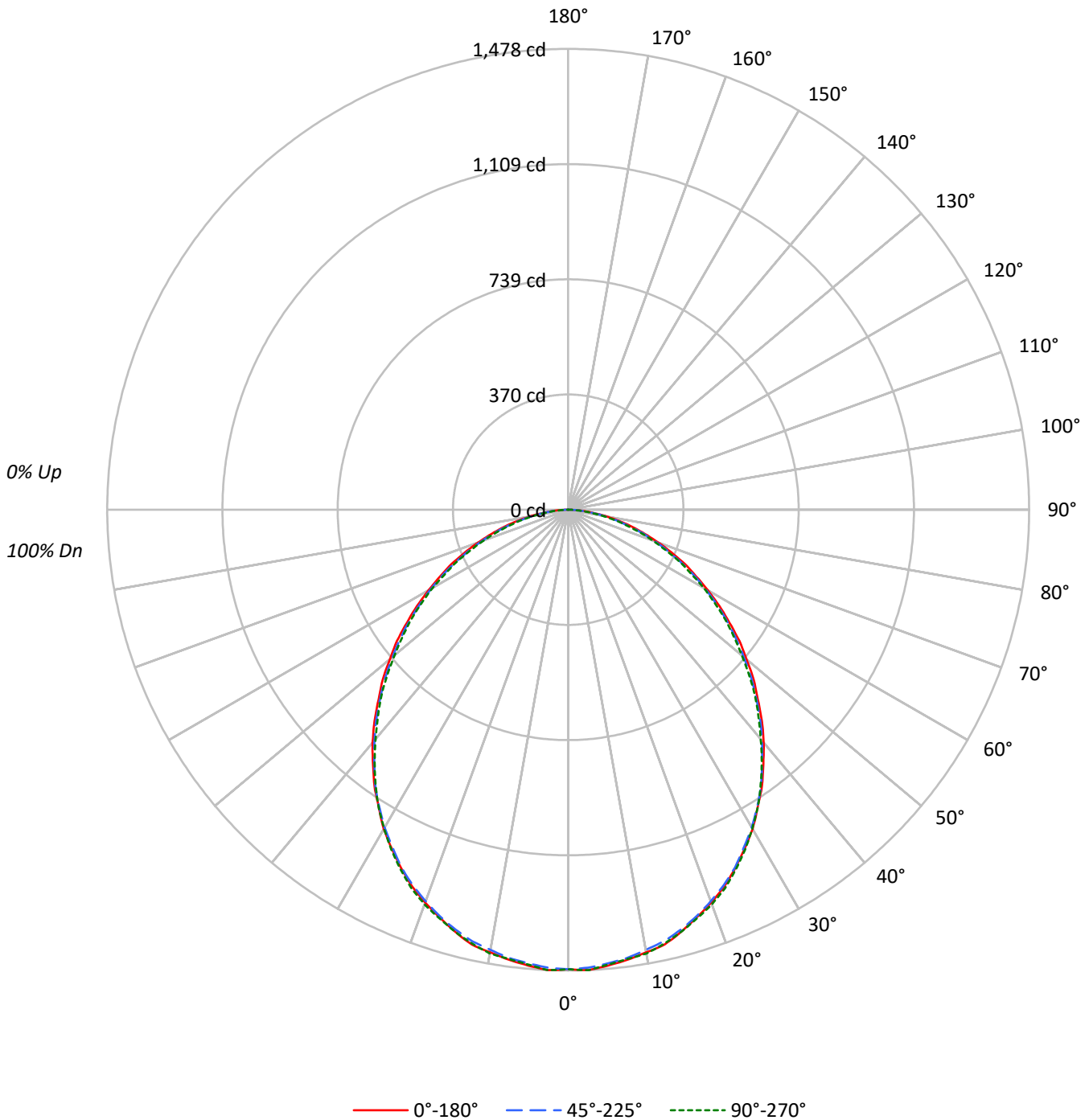
Input Watts (W): 25.482
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1983	1983	1983
5°	1982	1973	1978
10°	1970	1958	1974
15°	1952	1942	1952
20°	1920	1914	1929
25°	1882	1879	1889
30°	1837	1828	1834
35°	1779	1772	1768
40°	1714	1697	1687
45°	1636	1620	1614
50°	1562	1537	1520
55°	1479	1457	1443
60°	1391	1365	1350
65°	1314	1265	1254
70°	1205	1159	1135
75°	1107	1039	996
80°	972	907	852
85°	786	730	621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.0	3.8
10°-20°	394.2	10.8
20°-30°	583.1	15.9
30°-40°	672.9	18.4
40°-50°	657.2	17.9
50°-60°	555.0	15.1
60°-70°	395.3	10.8
70°-80°	214.0	5.8
80°-90°	55.2	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°	1116.3	30.4
0°-40°	1789.2	48.8
0°-60°	3001.4	81.9
0°-90°	3666.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3666.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1474	1474	1474	1474	1474	
5°	1468	1468	1461	1464	1464	139
15°	1402	1396	1394	1400	1402	395
25°	1268	1261	1266	1270	1273	584
35°	1083	1075	1079	1075	1076	676
45°	860	853	852	848	848	665
55°	630	622	621	615	615	565
65°	413	404	397	393	394	407
75°	213	206	200	195	192	225
85°	51	50	47	41	40	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1473.6	1473.6	1473.6	1473.6	1473.6
2.5°	1478.4	1472.4	1470.1	1471.3	1478.4
5°	1467.7	1467.7	1460.6	1464.2	1464.2
7.5°	1455.9	1457.1	1450.0	1455.9	1453.5
10°	1441.7	1438.1	1433.4	1442.9	1445.2
12.5°	1428.7	1420.4	1418.0	1424.0	1425.1
15°	1401.5	1395.6	1394.4	1400.3	1401.5
17.5°	1370.7	1371.9	1367.2	1375.5	1374.3
20°	1341.2	1338.8	1336.4	1345.9	1347.1
22.5°	1308.1	1301.0	1303.3	1311.6	1314.0
25°	1267.8	1260.7	1265.5	1270.2	1272.6
27.5°	1225.3	1221.7	1220.5	1226.4	1228.8
30°	1182.7	1176.8	1176.8	1183.9	1180.3
32.5°	1130.6	1125.9	1128.3	1130.6	1131.8
35°	1083.3	1075.1	1078.6	1075.1	1076.2
37.5°	1027.8	1021.8	1020.7	1019.5	1019.5
40°	975.7	971.0	966.3	966.3	960.3
42.5°	918.9	913.0	910.7	907.1	903.6
45°	859.8	852.7	851.5	848.0	848.0
47.5°	806.6	795.9	794.8	787.7	787.7
50°	746.3	739.2	734.4	729.7	726.2
52.5°	691.9	684.8	677.7	672.9	669.4
55°	630.4	622.1	620.9	615.0	615.0
57.5°	574.8	567.7	563.0	555.9	557.0
60°	516.8	509.7	507.4	501.5	501.5
62.5°	462.4	456.5	453.0	447.1	442.3
65°	412.8	404.5	397.4	392.7	393.8
67.5°	358.4	348.9	345.3	340.6	337.1
70°	306.3	300.4	294.5	288.6	288.6
72.5°	257.8	251.9	248.4	241.3	238.9
75°	212.9	205.8	199.9	195.1	191.6
77.5°	167.9	160.8	157.3	151.4	151.4
80°	125.4	120.6	117.1	114.7	110.0
82.5°	86.3	84.0	80.4	76.9	73.3
85°	50.9	49.7	47.3	41.4	40.2
87.5°	20.1	20.1	17.7	16.6	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)