

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: P296022

Luminaire Tested: **24RLN-LD5-42-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296022
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-L92765-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3434.0 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

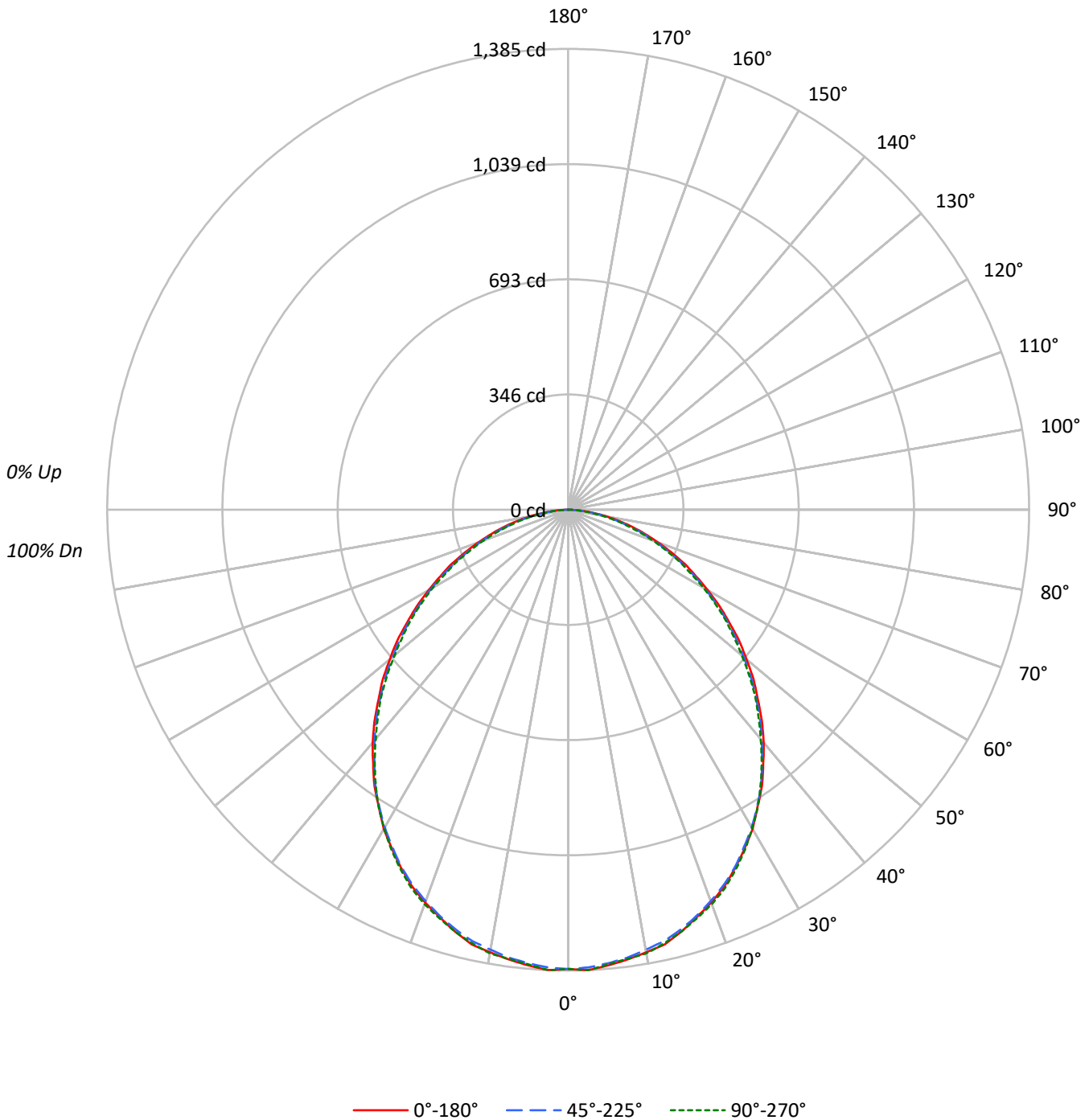
Input Watts (W): 28.83
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1857	1857	1857
5°	1857	1848	1852
10°	1845	1834	1850
15°	1829	1819	1829
20°	1799	1793	1807
25°	1763	1760	1770
30°	1721	1713	1718
35°	1667	1660	1656
40°	1605	1590	1580
45°	1533	1518	1511
50°	1463	1440	1424
55°	1385	1364	1351
60°	1303	1279	1264
65°	1231	1185	1174
70°	1129	1085	1063
75°	1037	973	933
80°	910	850	798
85°	735	684	582



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.2	3.8
10°-20°	369.2	10.8
20°-30°	546.2	15.9
30°-40°	630.3	18.4
40°-50°	615.6	17.9
50°-60°	519.9	15.1
60°-70°	370.3	10.8
70°-80°	200.5	5.8
80°-90°	51.7	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°	1045.6	30.4
0°-40°	1676.0	48.8
0°-60°	2811.5	81.9
0°-90°	3434.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3434.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1380	1380	1380	1380	1380	
5°	1375	1375	1368	1372	1372	130
15°	1313	1307	1306	1312	1313	370
25°	1188	1181	1185	1190	1192	547
35°	1015	1007	1010	1007	1008	633
45°	805	799	798	794	794	623
55°	590	583	582	576	576	529
65°	387	379	372	368	369	381
75°	199	193	187	183	180	211
85°	48	46	44	39	38	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1380.4	1380.4	1380.4	1380.4	1380.4
2.5°	1384.8	1379.3	1377.0	1378.2	1384.8
5°	1374.8	1374.8	1368.2	1371.5	1371.5
7.5°	1363.8	1364.9	1358.2	1363.8	1361.5
10°	1350.5	1347.1	1342.7	1351.6	1353.8
12.5°	1338.3	1330.5	1328.3	1333.8	1334.9
15°	1312.8	1307.3	1306.1	1311.7	1312.8
17.5°	1284.0	1285.1	1280.7	1288.4	1287.3
20°	1256.3	1254.1	1251.9	1260.7	1261.8
22.5°	1225.3	1218.6	1220.8	1228.6	1230.8
25°	1187.6	1181.0	1185.4	1189.8	1192.0
27.5°	1147.7	1144.4	1143.3	1148.8	1151.0
30°	1107.8	1102.3	1102.3	1108.9	1105.6
32.5°	1059.1	1054.7	1056.9	1059.1	1060.2
35°	1014.8	1007.0	1010.4	1007.0	1008.1
37.5°	962.7	957.2	956.1	955.0	955.0
40°	914.0	909.5	905.1	905.1	899.6
42.5°	860.8	855.3	853.0	849.7	846.4
45°	805.4	798.8	797.6	794.3	794.3
47.5°	755.5	745.6	744.5	737.8	737.8
50°	699.0	692.4	688.0	683.5	680.2
52.5°	648.1	641.4	634.8	630.4	627.0
55°	590.5	582.7	581.6	576.1	576.1
57.5°	538.4	531.8	527.3	520.7	521.8
60°	484.1	477.5	475.3	469.7	469.7
62.5°	433.2	427.6	424.3	418.8	414.3
65°	386.6	378.9	372.2	367.8	368.9
67.5°	335.7	326.8	323.5	319.1	315.7
70°	286.9	281.4	275.9	270.3	270.3
72.5°	241.5	236.0	232.6	226.0	223.8
75°	199.4	192.8	187.2	182.8	179.5
77.5°	157.3	150.7	147.3	141.8	141.8
80°	117.4	113.0	109.7	107.5	103.0
82.5°	80.9	78.7	75.3	72.0	68.7
85°	47.6	46.5	44.3	38.8	37.7
87.5°	18.8	18.8	16.6	15.5	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)