

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: P296434

Luminaire Tested: **22RLN-LD5-35-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-35-UNV-L82765-W2A1-U-4500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3596.0 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

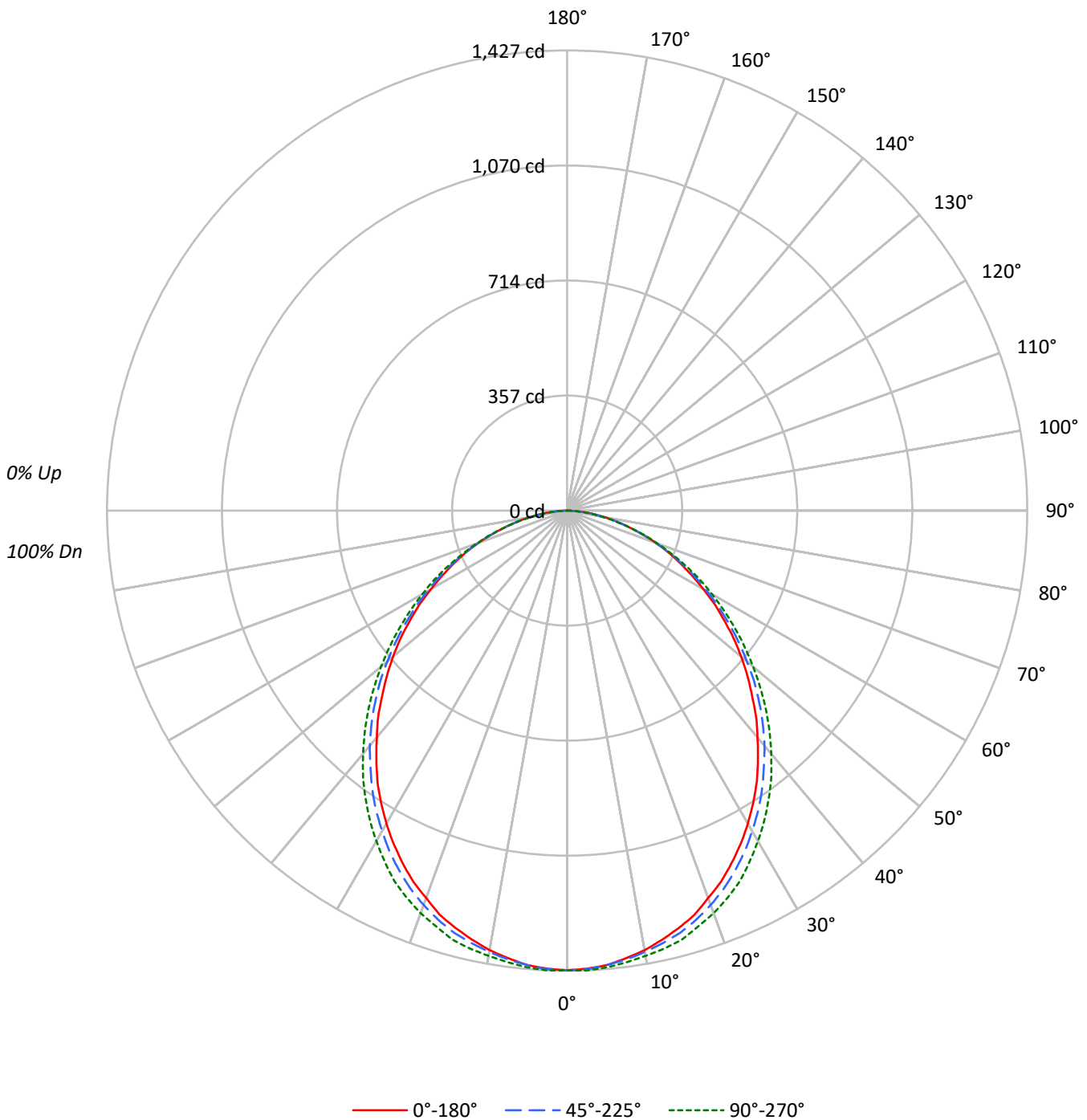
Input Watts (W): 28.458
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3836	3836	3836
5°	3821	3821	3841
10°	3782	3797	3831
15°	3731	3776	3836
20°	3661	3728	3805
25°	3583	3657	3764
30°	3482	3566	3677
35°	3369	3463	3581
40°	3225	3344	3458
45°	3084	3207	3316
50°	2950	3047	3152
55°	2793	2877	2978
60°	2625	2692	2789
65°	2466	2511	2592
70°	2299	2299	2341
75°	2050	2050	2050
80°	1805	1751	1751
85°	1439	1383	1272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.4	3.7
10°-20°	382.2	10.6
20°-30°	567.7	15.8
30°-40°	658.9	18.3
40°-50°	648.8	18.0
50°-60°	549.0	15.3
60°-70°	391.5	10.9
70°-80°	210.4	5.9
80°-90°	53.0	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°	1084.3	30.2
0°-40°	1743.2	48.5
0°-60°	2941.0	81.8
0°-90°	3596.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3596.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1425	1425	1425	1425	1425	
5°	1415	1415	1415	1420	1422	134
15°	1339	1343	1356	1368	1377	377
25°	1207	1210	1232	1255	1268	555
35°	1026	1027	1054	1079	1090	640
45°	810	816	843	862	871	627
55°	595	597	613	629	635	533
65°	387	387	394	402	407	384
75°	197	195	197	197	197	212
85°	47	45	45	41	41	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1425.4	1425.4	1425.4	1425.4	1425.4
2.5°	1421.8	1421.8	1423.6	1425.4	1427.2
5°	1414.6	1414.6	1414.6	1420.0	1421.8
7.5°	1400.3	1402.1	1403.9	1409.2	1412.8
10°	1384.1	1385.9	1389.5	1398.5	1402.1
12.5°	1362.6	1368.0	1373.4	1385.9	1391.3
15°	1339.3	1342.9	1355.5	1368.0	1377.0
17.5°	1314.2	1316.0	1330.4	1348.3	1351.9
20°	1278.4	1283.7	1301.7	1319.6	1328.6
22.5°	1246.1	1249.7	1269.4	1292.7	1299.9
25°	1206.6	1210.2	1231.7	1255.0	1267.6
27.5°	1165.4	1169.0	1192.3	1217.4	1226.4
30°	1120.6	1124.2	1147.5	1174.4	1183.3
32.5°	1074.0	1077.5	1102.6	1126.0	1138.5
35°	1025.6	1027.3	1054.2	1079.3	1090.1
37.5°	971.8	977.1	1002.2	1027.3	1039.9
40°	918.0	923.4	952.0	975.4	984.3
42.5°	867.8	874.9	898.3	919.8	928.7
45°	810.4	815.8	842.7	862.4	871.4
47.5°	758.4	763.8	787.1	806.8	812.2
50°	704.6	708.2	727.9	745.9	753.0
52.5°	650.8	652.6	670.6	688.5	693.9
55°	595.3	597.0	613.2	629.3	634.7
57.5°	543.3	543.3	557.6	570.2	575.5
60°	487.7	487.7	500.2	512.8	518.2
62.5°	435.7	435.7	448.2	457.2	464.4
65°	387.3	387.3	394.4	401.6	407.0
67.5°	340.7	335.3	342.4	351.4	349.6
70°	292.2	286.9	292.2	295.8	297.6
72.5°	243.8	240.3	243.8	245.6	249.2
75°	197.2	195.4	197.2	197.2	197.2
77.5°	157.8	152.4	156.0	154.2	152.4
80°	116.5	114.7	113.0	111.2	113.0
82.5°	80.7	78.9	78.9	75.3	75.3
85°	46.6	44.8	44.8	41.2	41.2
87.5°	17.9	17.9	16.1	16.1	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)