

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: P296432

Luminaire Tested: **22RLN-LD5-35-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296432
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-3500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3457.0 lumens
Efficiency: N/A
Efficacy: 123.5 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

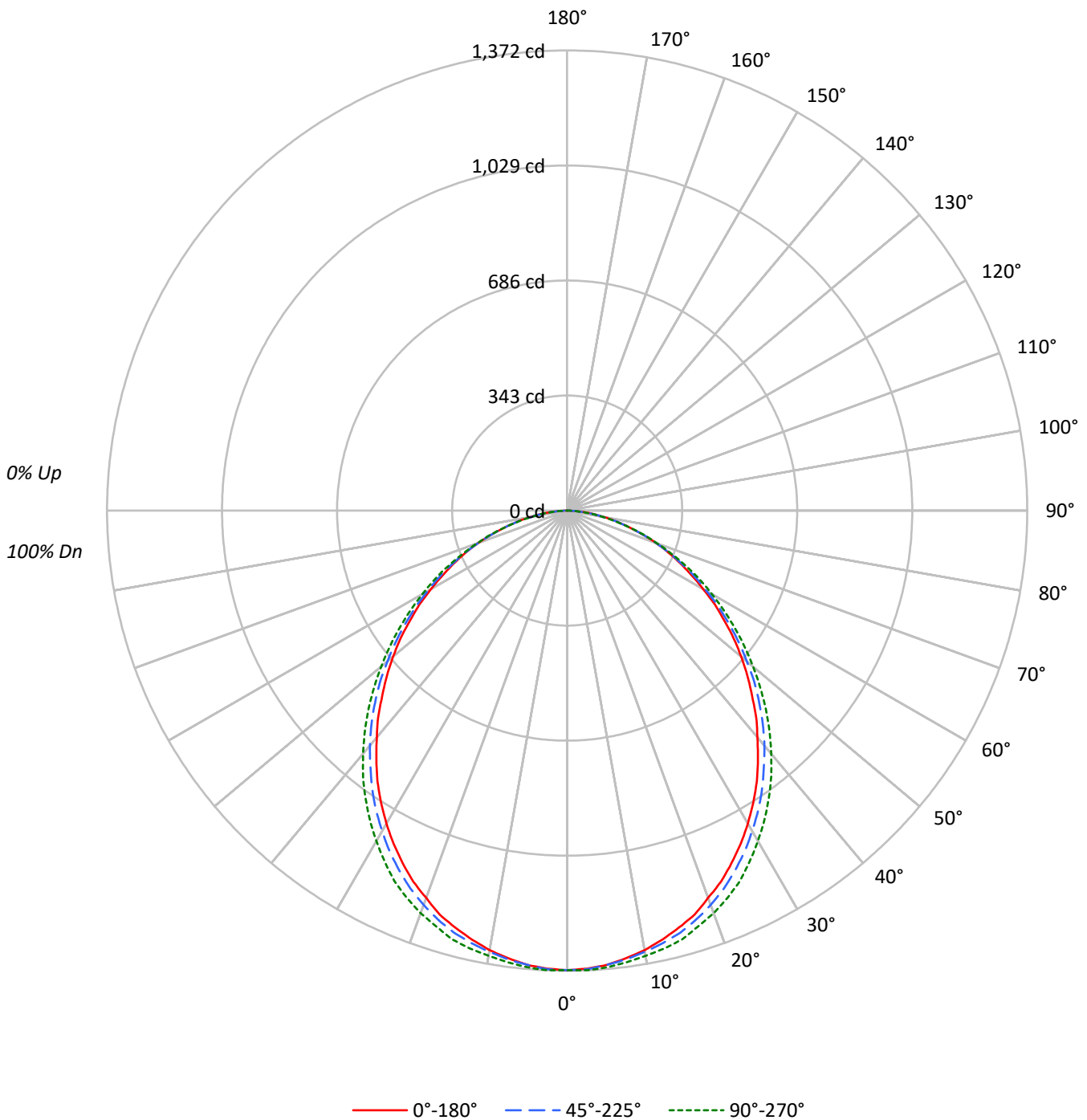
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3687	3687	3687
5°	3673	3673	3692
10°	3636	3650	3683
15°	3587	3630	3688
20°	3519	3583	3657
25°	3444	3516	3618
30°	3347	3428	3535
35°	3239	3329	3443
40°	3100	3215	3324
45°	2965	3083	3188
50°	2836	2930	3031
55°	2685	2766	2863
60°	2523	2588	2681
65°	2371	2415	2492
70°	2211	2211	2251
75°	1971	1971	1971
80°	1736	1683	1683
85°	1383	1331	1223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.2	3.7
10°-20°	367.4	10.6
20°-30°	545.8	15.8
30°-40°	633.4	18.3
40°-50°	623.7	18.0
50°-60°	527.8	15.3
60°-70°	376.4	10.9
70°-80°	202.3	5.9
80°-90°	51.0	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°	1042.4	30.2
0°-40°	1675.8	48.5
0°-60°	2827.3	81.8
0°-90°	3457.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3457.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1370	1370	1370	1370	1370	
5°	1360	1360	1360	1365	1367	129
15°	1288	1291	1303	1315	1324	363
25°	1160	1163	1184	1206	1219	534
35°	986	988	1014	1038	1048	615
45°	779	784	810	829	838	602
55°	572	574	590	605	610	513
65°	372	372	379	386	391	369
75°	190	188	190	190	190	204
85°	45	43	43	40	40	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1370.3	1370.3	1370.3	1370.3	1370.3
2.5°	1366.8	1366.8	1368.6	1370.3	1372.0
5°	1359.9	1359.9	1359.9	1365.1	1366.8
7.5°	1346.1	1347.9	1349.6	1354.8	1358.2
10°	1330.6	1332.4	1335.8	1344.4	1347.9
12.5°	1310.0	1315.1	1320.3	1332.4	1337.5
15°	1287.5	1291.0	1303.1	1315.1	1323.7
17.5°	1263.4	1265.1	1278.9	1296.2	1299.6
20°	1228.9	1234.1	1251.3	1268.6	1277.2
22.5°	1197.9	1201.4	1220.3	1242.7	1249.6
25°	1160.0	1163.4	1184.1	1206.5	1218.6
27.5°	1120.4	1123.8	1146.2	1170.3	1179.0
30°	1077.3	1080.7	1103.1	1129.0	1137.6
32.5°	1032.4	1035.9	1060.0	1082.4	1094.5
35°	985.9	987.6	1013.5	1037.6	1048.0
37.5°	934.2	939.4	963.5	987.6	999.7
40°	882.5	887.7	915.2	937.7	946.3
42.5°	834.2	841.1	863.5	884.2	892.8
45°	779.1	784.2	810.1	829.1	837.7
47.5°	729.1	734.3	756.7	775.6	780.8
50°	677.4	680.8	699.8	717.0	723.9
52.5°	625.7	627.4	644.6	661.9	667.0
55°	572.2	574.0	589.5	605.0	610.2
57.5°	522.3	522.3	536.0	548.1	553.3
60°	468.8	468.8	480.9	493.0	498.1
62.5°	418.8	418.8	430.9	439.5	446.4
65°	372.3	372.3	379.2	386.1	391.3
67.5°	327.5	322.3	329.2	337.8	336.1
70°	281.0	275.8	281.0	284.4	286.1
72.5°	234.4	231.0	234.4	236.1	239.6
75°	189.6	187.9	189.6	189.6	189.6
77.5°	151.7	146.5	150.0	148.2	146.5
80°	112.0	110.3	108.6	106.9	108.6
82.5°	77.6	75.8	75.8	72.4	72.4
85°	44.8	43.1	43.1	39.6	39.6
87.5°	17.2	17.2	15.5	15.5	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)