

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: P296433

Luminaire Tested: **22RLN-LD5-35-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296433
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-4000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3534.0 lumens
Efficiency: N/A
Efficacy: 125.0 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

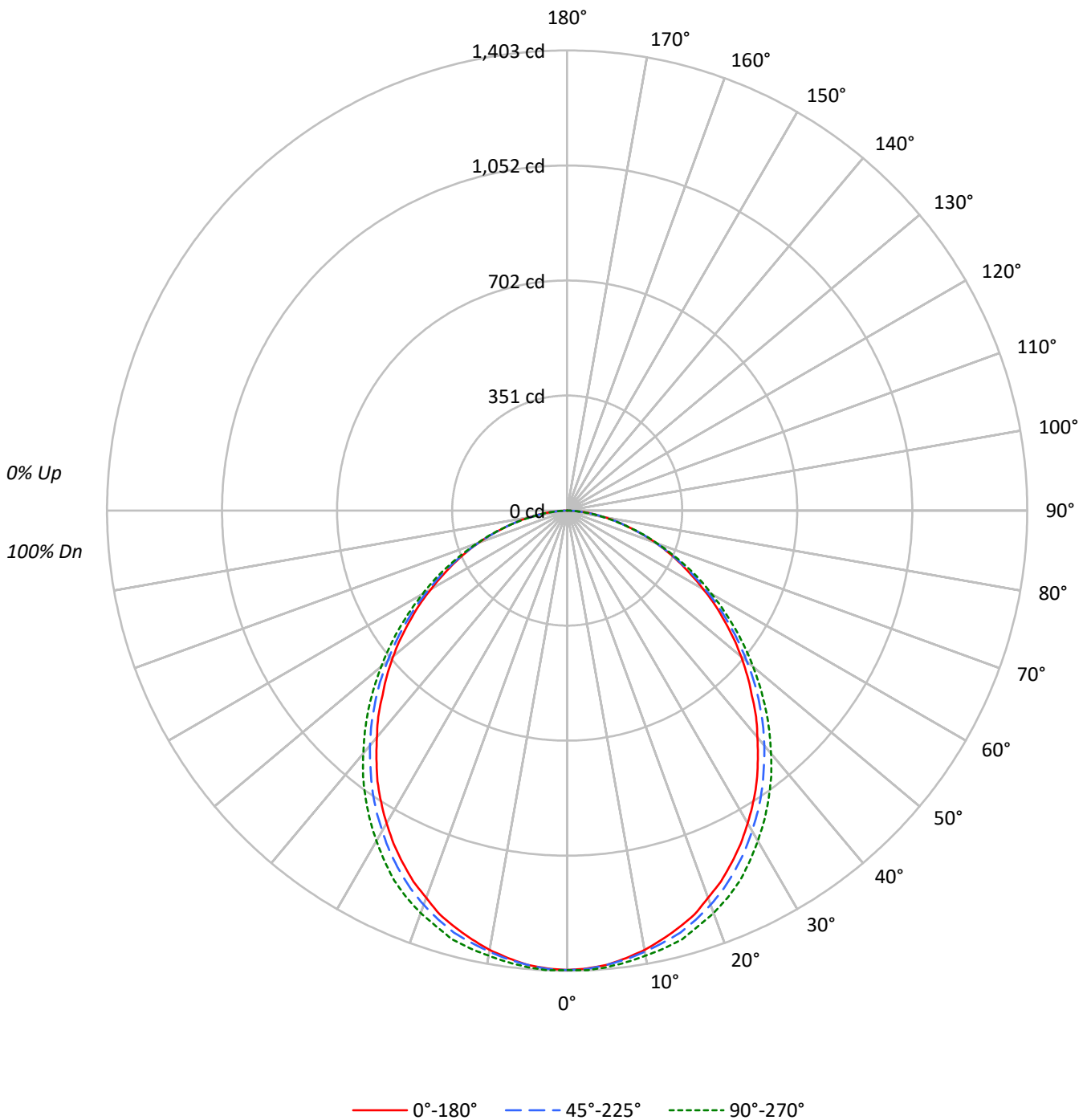
Input Watts (W): 28.272
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3770	3770	3770
5°	3755	3755	3774
10°	3717	3731	3765
15°	3667	3711	3770
20°	3598	3663	3739
25°	3521	3594	3699
30°	3422	3504	3613
35°	3311	3404	3519
40°	3169	3287	3398
45°	3031	3151	3259
50°	2899	2995	3098
55°	2745	2827	2927
60°	2580	2646	2740
65°	2423	2468	2547
70°	2260	2260	2301
75°	2015	2015	2015
80°	1774	1720	1720
85°	1414	1362	1250



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.1	3.7
10°-20°	375.6	10.6
20°-30°	557.9	15.8
30°-40°	647.5	18.3
40°-50°	637.6	18.0
50°-60°	539.6	15.3
60°-70°	384.8	10.9
70°-80°	206.8	5.9
80°-90°	52.1	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°	1065.6	30.2
0°-40°	1713.1	48.5
0°-60°	2890.3	81.8
0°-90°	3534.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3534.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1401	1401	1401	1401	1401	
5°	1390	1390	1390	1396	1397	132
15°	1316	1320	1332	1344	1353	371
25°	1186	1189	1210	1233	1246	546
35°	1008	1010	1036	1061	1071	629
45°	796	802	828	848	856	616
55°	585	587	603	618	624	524
65°	381	381	388	395	400	378
75°	194	192	194	194	194	208
85°	46	44	44	40	40	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1400.8	1400.8	1400.8	1400.8	1400.8
2.5°	1397.3	1397.3	1399.0	1400.8	1402.6
5°	1390.2	1390.2	1390.2	1395.5	1397.3
7.5°	1376.1	1377.9	1379.7	1384.9	1388.5
10°	1360.3	1362.0	1365.6	1374.4	1377.9
12.5°	1339.1	1344.4	1349.7	1362.0	1367.3
15°	1316.2	1319.7	1332.1	1344.4	1353.2
17.5°	1291.6	1293.3	1307.4	1325.0	1328.6
20°	1256.3	1261.6	1279.2	1296.8	1305.7
22.5°	1224.6	1228.1	1247.5	1270.4	1277.5
25°	1185.8	1189.4	1210.5	1233.4	1245.7
27.5°	1145.3	1148.8	1171.7	1196.4	1205.2
30°	1101.3	1104.8	1127.7	1154.1	1162.9
32.5°	1055.4	1059.0	1083.6	1106.5	1118.9
35°	1007.9	1009.6	1036.1	1060.7	1071.3
37.5°	955.0	960.3	985.0	1009.6	1022.0
40°	902.2	907.4	935.6	958.5	967.3
42.5°	852.8	859.9	882.8	903.9	912.7
45°	796.4	801.7	828.1	847.5	856.3
47.5°	745.3	750.6	773.5	792.9	798.2
50°	692.5	696.0	715.4	733.0	740.0
52.5°	639.6	641.4	659.0	676.6	681.9
55°	585.0	586.8	602.6	618.5	623.8
57.5°	533.9	533.9	548.0	560.3	565.6
60°	479.3	479.3	491.6	503.9	509.2
62.5°	428.2	428.2	440.5	449.3	456.4
65°	380.6	380.6	387.6	394.7	400.0
67.5°	334.8	329.5	336.5	345.4	343.6
70°	287.2	281.9	287.2	290.7	292.5
72.5°	239.6	236.1	239.6	241.4	244.9
75°	193.8	192.1	193.8	193.8	193.8
77.5°	155.1	149.8	153.3	151.5	149.8
80°	114.5	112.8	111.0	109.2	111.0
82.5°	79.3	77.5	77.5	74.0	74.0
85°	45.8	44.1	44.1	40.5	40.5
87.5°	17.6	17.6	15.9	15.9	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)