

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: P296430

Luminaire Tested: **22RLN-LD5-35-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296430
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-2700K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3248.0 lumens
Efficiency: N/A
Efficacy: 116.4 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

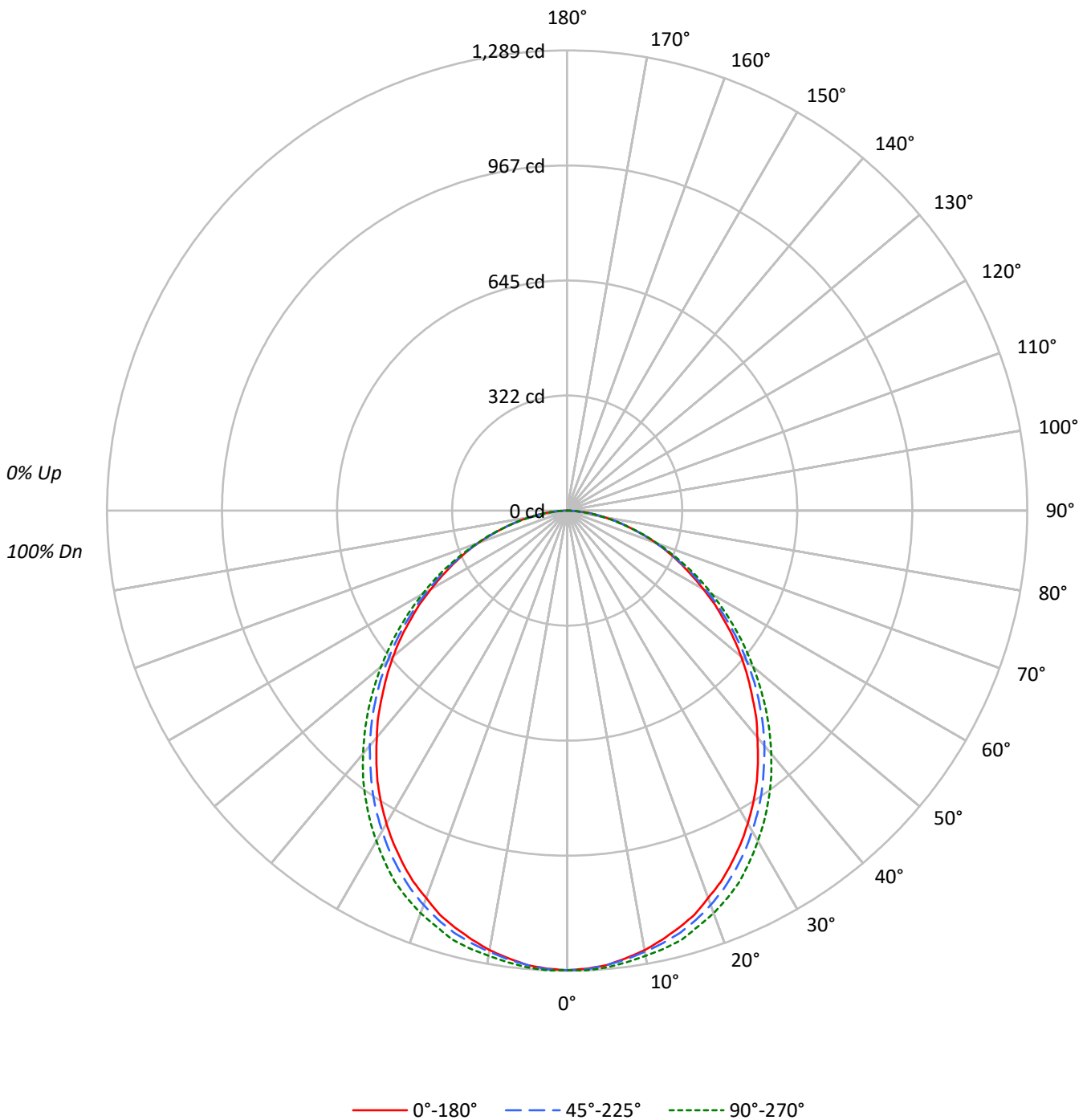
Input Watts (W): 27.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3464	3464	3464
5°	3451	3451	3469
10°	3416	3429	3460
15°	3370	3411	3465
20°	3306	3367	3436
25°	3236	3303	3399
30°	3145	3220	3321
35°	3043	3128	3234
40°	2912	3021	3123
45°	2786	2896	2995
50°	2664	2753	2848
55°	2522	2598	2690
60°	2371	2432	2519
65°	2227	2269	2341
70°	2077	2077	2115
75°	1852	1852	1852
80°	1632	1581	1581
85°	1300	1250	1149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.4	3.7
10°-20°	345.2	10.6
20°-30°	512.8	15.8
30°-40°	595.1	18.3
40°-50°	586.0	18.0
50°-60°	495.9	15.3
60°-70°	353.7	10.9
70°-80°	190.0	5.9
80°-90°	47.9	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°	979.4	30.2
0°-40°	1574.5	48.5
0°-60°	2656.4	81.8
0°-90°	3248.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3248.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1287	1287	1287	1287	1287	
5°	1278	1278	1278	1283	1284	121
15°	1210	1213	1224	1236	1244	341
25°	1090	1093	1112	1134	1145	502
35°	926	928	952	975	985	578
45°	732	737	761	779	787	566
55°	538	539	554	568	573	482
65°	350	350	356	363	368	347
75°	178	176	178	178	178	191
85°	42	40	40	37	37	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1287.4	1287.4	1287.4	1287.4	1287.4
2.5°	1284.2	1284.2	1285.8	1287.4	1289.1
5°	1277.7	1277.7	1277.7	1282.6	1284.2
7.5°	1264.8	1266.4	1268.0	1272.9	1276.1
10°	1250.2	1251.8	1255.0	1263.1	1266.4
12.5°	1230.8	1235.6	1240.5	1251.8	1256.7
15°	1209.7	1212.9	1224.3	1235.6	1243.7
17.5°	1187.0	1188.7	1201.6	1217.8	1221.0
20°	1154.6	1159.5	1175.7	1191.9	1200.0
22.5°	1125.5	1128.7	1146.5	1167.6	1174.1
25°	1089.9	1093.1	1112.5	1133.6	1144.9
27.5°	1052.6	1055.9	1076.9	1099.6	1107.7
30°	1012.1	1015.4	1036.4	1060.7	1068.8
32.5°	970.0	973.3	995.9	1017.0	1028.3
35°	926.3	927.9	952.2	974.9	984.6
37.5°	877.7	882.6	905.3	927.9	939.3
40°	829.1	834.0	859.9	881.0	889.1
42.5°	783.8	790.3	811.3	830.8	838.9
45°	732.0	736.8	761.1	778.9	787.0
47.5°	685.0	689.9	710.9	728.7	733.6
50°	636.4	639.7	657.5	673.7	680.2
52.5°	587.8	589.5	605.7	621.9	626.7
55°	537.6	539.3	553.8	568.4	573.3
57.5°	490.7	490.7	503.6	515.0	519.8
60°	440.5	440.5	451.8	463.2	468.0
62.5°	393.5	393.5	404.9	413.0	419.4
65°	349.8	349.8	356.3	362.7	367.6
67.5°	307.7	302.8	309.3	317.4	315.8
70°	264.0	259.1	264.0	267.2	268.8
72.5°	220.2	217.0	220.2	221.9	225.1
75°	178.1	176.5	178.1	178.1	178.1
77.5°	142.5	137.7	140.9	139.3	137.7
80°	105.3	103.6	102.0	100.4	102.0
82.5°	72.9	71.3	71.3	68.0	68.0
85°	42.1	40.5	40.5	37.2	37.2
87.5°	16.2	16.2	14.6	14.6	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)