

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: P296438

Luminaire Tested: **22RLN-LD5-35-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296438
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-6500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3700.0 lumens
Efficiency: N/A
Efficacy: 127.1 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

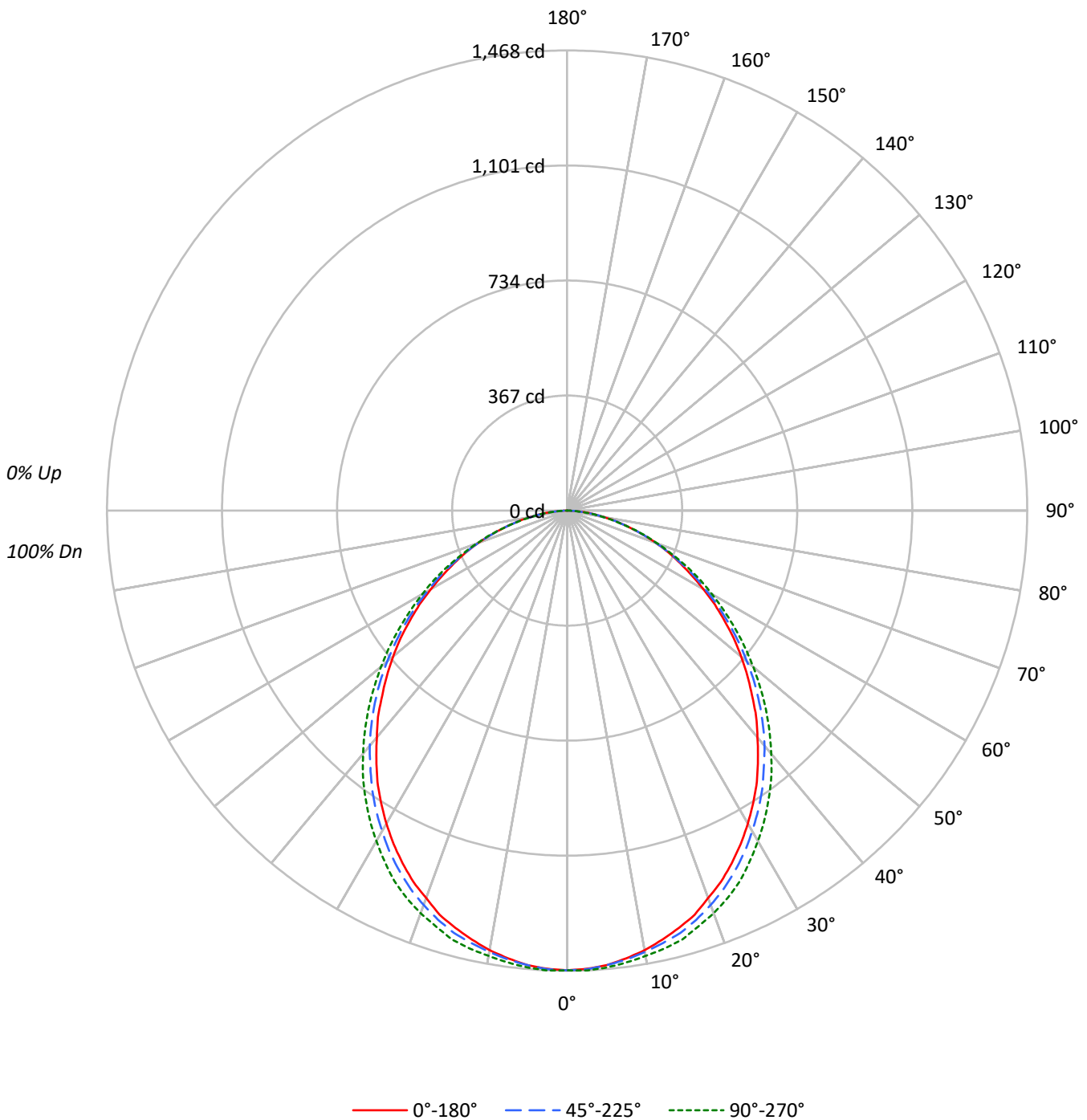
Input Watts (W): 29.109
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46					46			
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40					40			
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36					36			
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29					29			
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3947	3947	3947
5°	3932	3932	3952
10°	3892	3907	3942
15°	3839	3886	3947
20°	3767	3835	3915
25°	3686	3763	3873
30°	3583	3669	3783
35°	3466	3563	3685
40°	3318	3441	3558
45°	3173	3299	3412
50°	3035	3136	3244
55°	2874	2960	3064
60°	2701	2770	2869
65°	2537	2585	2667
70°	2366	2366	2409
75°	2110	2110	2110
80°	1858	1801	1801
85°	1482	1423	1309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	3.7
10°-20°	393.2	10.6
20°-30°	584.1	15.8
30°-40°	677.9	18.3
40°-50°	667.5	18.0
50°-60°	564.9	15.3
60°-70°	402.9	10.9
70°-80°	216.5	5.9
80°-90°	54.6	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°	1115.7	30.2
0°-40°	1793.6	48.5
0°-60°	3026.1	81.8
0°-90°	3700.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3700.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1467	1467	1467	1467	1467	
5°	1456	1456	1456	1461	1463	138
15°	1378	1382	1395	1408	1417	388
25°	1242	1245	1267	1291	1304	571
35°	1055	1057	1085	1111	1122	658
45°	834	839	867	887	897	645
55°	612	614	631	648	653	549
65°	398	398	406	413	419	395
75°	203	201	203	203	203	218
85°	48	46	46	42	42	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1466.6	1466.6	1466.6	1466.6	1466.6
2.5°	1462.9	1462.9	1464.8	1466.6	1468.4
5°	1455.5	1455.5	1455.5	1461.1	1462.9
7.5°	1440.8	1442.6	1444.5	1450.0	1453.7
10°	1424.2	1426.0	1429.7	1438.9	1442.6
12.5°	1402.0	1407.6	1413.1	1426.0	1431.5
15°	1378.0	1381.7	1394.7	1407.6	1416.8
17.5°	1352.2	1354.1	1368.8	1387.3	1391.0
20°	1315.3	1320.9	1339.3	1357.8	1367.0
22.5°	1282.1	1285.8	1306.1	1330.1	1337.5
25°	1241.5	1245.2	1267.4	1291.3	1304.3
27.5°	1199.1	1202.8	1226.8	1252.6	1261.8
30°	1153.0	1156.7	1180.7	1208.3	1217.6
32.5°	1105.0	1108.7	1134.5	1158.5	1171.4
35°	1055.2	1057.1	1084.7	1110.6	1121.6
37.5°	999.9	1005.4	1031.2	1057.1	1070.0
40°	944.5	950.1	979.6	1003.6	1012.8
42.5°	892.9	900.3	924.2	946.4	955.6
45°	833.8	839.4	867.0	887.3	896.6
47.5°	780.3	785.9	809.9	830.2	835.7
50°	725.0	728.7	749.0	767.4	774.8
52.5°	669.7	671.5	689.9	708.4	713.9
55°	612.5	614.3	630.9	647.5	653.1
57.5°	559.0	559.0	573.7	586.6	592.2
60°	501.8	501.8	514.7	527.6	533.1
62.5°	448.3	448.3	461.2	470.4	477.8
65°	398.5	398.5	405.9	413.2	418.8
67.5°	350.5	345.0	352.4	361.6	359.7
70°	300.7	295.2	300.7	304.4	306.2
72.5°	250.9	247.2	250.9	252.7	256.4
75°	202.9	201.1	202.9	202.9	202.9
77.5°	162.3	156.8	160.5	158.7	156.8
80°	119.9	118.1	116.2	114.4	116.2
82.5°	83.0	81.2	81.2	77.5	77.5
85°	48.0	46.1	46.1	42.4	42.4
87.5°	18.4	18.4	16.6	16.6	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)