

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: P296532

Luminaire Tested: **22RLN-LD5-44-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296532
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-LD5-44-UNV-L92765-W2A1-U-2700K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3436.0 lumens
Efficiency: N/A
Efficacy: 96.7 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

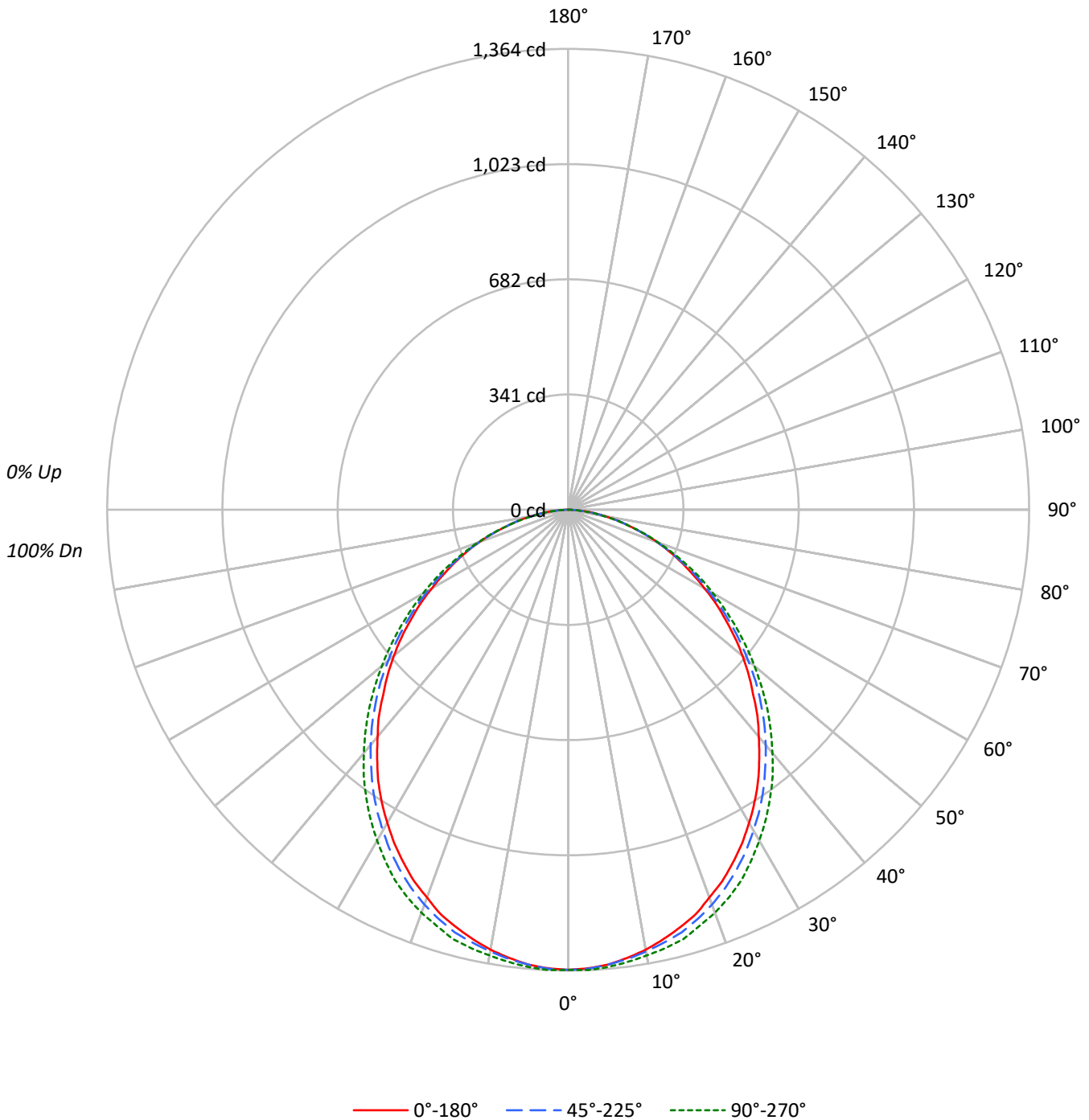
Input Watts (W): 35.526
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3665	3665	3665
5°	3651	3651	3670
10°	3614	3628	3661
15°	3565	3608	3665
20°	3498	3562	3635
25°	3423	3494	3596
30°	3327	3407	3513
35°	3219	3309	3422
40°	3081	3196	3304
45°	2947	3064	3169
50°	2819	2912	3012
55°	2669	2749	2845
60°	2508	2573	2665
65°	2356	2400	2476
70°	2197	2197	2238
75°	1959	1959	1959
80°	1726	1672	1672
85°	1374	1321	1216



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	3.7
10°-20°	365.2	10.6
20°-30°	542.5	15.8
30°-40°	629.6	18.3
40°-50°	619.9	18.0
50°-60°	524.6	15.3
60°-70°	374.1	10.9
70°-80°	201.0	5.9
80°-90°	50.7	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°	1036.1	30.2
0°-40°	1665.6	48.5
0°-60°	2810.2	81.8
0°-90°	3436.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3436.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1362	1362	1362	1362	1362	
5°	1352	1352	1352	1357	1358	128
15°	1280	1283	1295	1307	1316	361
25°	1153	1156	1177	1199	1211	531
35°	980	982	1007	1031	1042	611
45°	774	780	805	824	833	599
55°	569	570	586	601	606	509
65°	370	370	377	384	389	367
75°	188	187	188	188	188	202
85°	44	43	43	39	39	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1362.0	1362.0	1362.0	1362.0	1362.0
2.5°	1358.5	1358.5	1360.2	1362.0	1363.7
5°	1351.7	1351.7	1351.7	1356.8	1358.5
7.5°	1338.0	1339.7	1341.4	1346.5	1350.0
10°	1322.6	1324.3	1327.7	1336.3	1339.7
12.5°	1302.0	1307.1	1312.3	1324.3	1329.4
15°	1279.7	1283.2	1295.1	1307.1	1315.7
17.5°	1255.7	1257.5	1271.2	1288.3	1291.7
20°	1221.5	1226.6	1243.7	1260.9	1269.4
22.5°	1190.6	1194.1	1212.9	1235.2	1242.0
25°	1153.0	1156.4	1176.9	1199.2	1211.2
27.5°	1113.5	1117.0	1139.2	1163.2	1171.8
30°	1070.7	1074.1	1096.4	1122.1	1130.7
32.5°	1026.2	1029.6	1053.6	1075.9	1087.9
35°	979.9	981.6	1007.3	1031.3	1041.6
37.5°	928.5	933.7	957.7	981.6	993.6
40°	877.1	882.3	909.7	932.0	940.5
42.5°	829.2	836.0	858.3	878.8	887.4
45°	774.3	779.5	805.2	824.0	832.6
47.5°	724.7	729.8	752.1	770.9	776.1
50°	673.3	676.7	695.5	712.7	719.5
52.5°	621.9	623.6	640.7	657.9	663.0
55°	568.8	570.5	585.9	601.3	606.5
57.5°	519.1	519.1	532.8	544.8	549.9
60°	466.0	466.0	478.0	490.0	495.1
62.5°	416.3	416.3	428.3	436.9	443.7
65°	370.0	370.0	376.9	383.7	388.9
67.5°	325.5	320.4	327.2	335.8	334.1
70°	279.2	274.1	279.2	282.7	284.4
72.5°	233.0	229.6	233.0	234.7	238.1
75°	188.4	186.7	188.4	188.4	188.4
77.5°	150.8	145.6	149.0	147.3	145.6
80°	111.4	109.6	107.9	106.2	107.9
82.5°	77.1	75.4	75.4	72.0	72.0
85°	44.5	42.8	42.8	39.4	39.4
87.5°	17.1	17.1	15.4	15.4	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)