

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: P296616

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-44-RDP-UNV-L82765-W2A1-U-2700K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3263.0 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

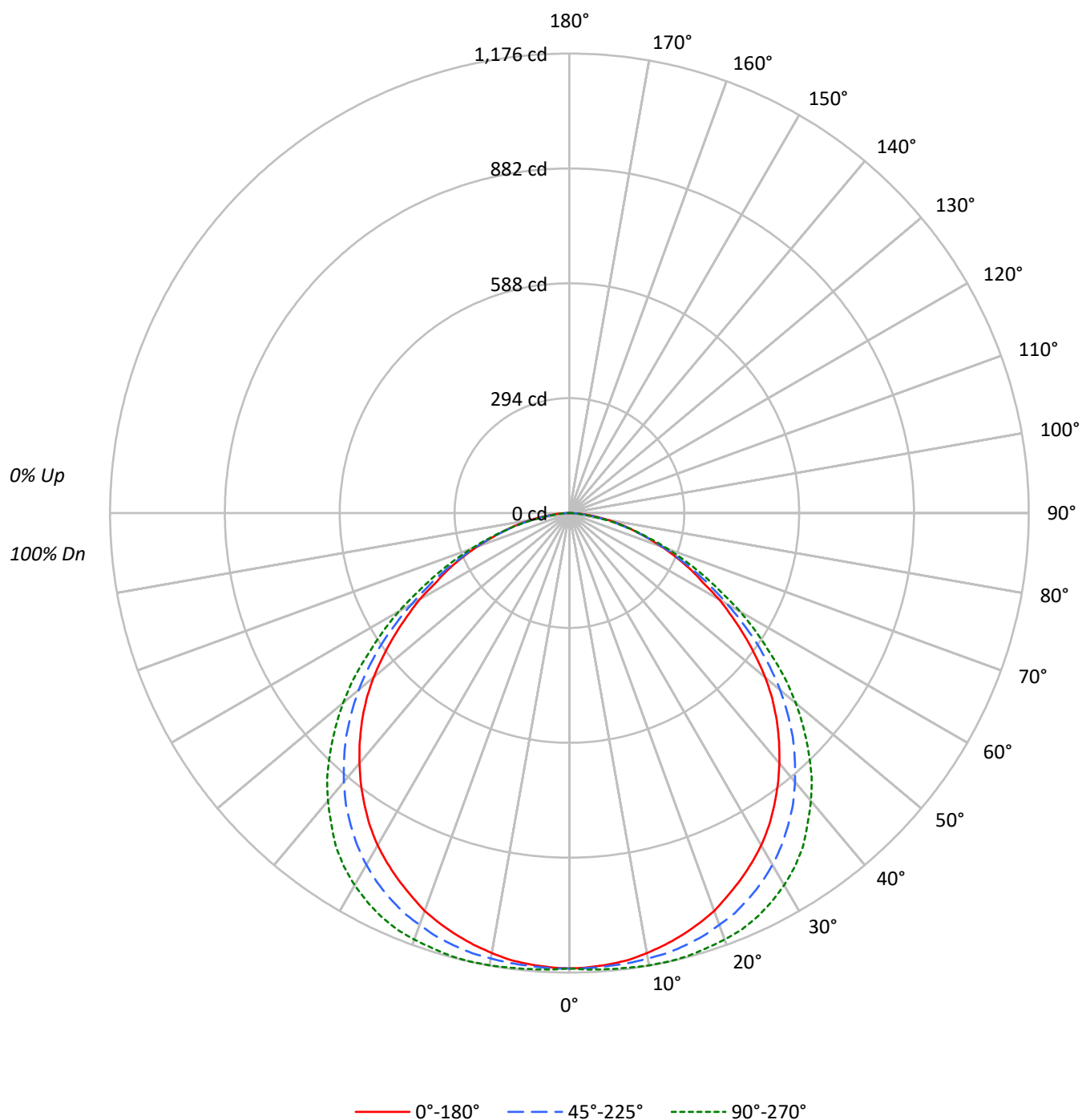
Input Watts (W): 35.619
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	103	99	96	98	95	93		94	92	90		91
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		47
8	61	48	40	34	60	47	39	34	46	39	33		45	38	33		44
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40
10	54	41	33	28	52	40	33	27	39	32	27		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3137	3137	3137
5°	3132	3143	3165
10°	3125	3163	3212
15°	3114	3192	3269
20°	3103	3212	3326
25°	3075	3230	3384
30°	3051	3231	3417
35°	3003	3206	3422
40°	2937	3155	3379
45°	2856	3076	3296
50°	2740	2949	3167
55°	2566	2762	2950
60°	2385	2513	2717
65°	2186	2262	2415
70°	1979	2010	2104
75°	1743	1702	1763
80°	1516	1392	1330
85°	1232	923	800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	3.4
10°-20°	323.6	9.9
20°-30°	501.4	15.4
30°-40°	610.2	18.7
40°-50°	621.5	19.0
50°-60°	524.1	16.1
60°-70°	354.5	10.9
70°-80°	177.2	5.4
80°-90°	39.4	1.2
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°	936.0	28.7
0°-40°	1546.2	47.4
0°-60°	2691.9	82.5
0°-90°	3263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3263.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1166	1166	1166	1166	1166	
5°	1160	1162	1164	1170	1172	110
15°	1118	1126	1146	1166	1174	316
25°	1036	1052	1088	1124	1140	478
35°	914	934	976	1022	1042	571
45°	750	764	808	850	866	578
55°	547	555	589	617	629	489
65°	343	337	355	371	379	339
75°	168	162	164	166	170	180
85°	40	34	30	26	26	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1165.6	1165.6	1165.6	1165.6	1165.6
2.5°	1163.6	1163.6	1165.6	1167.6	1169.5
5°	1159.6	1161.6	1163.6	1169.5	1171.5
7.5°	1153.6	1155.6	1161.6	1169.5	1173.5
10°	1143.6	1147.6	1157.6	1169.5	1175.5
12.5°	1131.6	1137.6	1153.6	1167.6	1175.5
15°	1117.7	1125.6	1145.6	1165.6	1173.5
17.5°	1101.7	1111.7	1135.6	1157.6	1167.6
20°	1083.7	1095.7	1121.6	1149.6	1161.6
22.5°	1059.8	1075.7	1107.7	1139.6	1153.6
25°	1035.8	1051.8	1087.7	1123.6	1139.6
27.5°	1009.9	1027.8	1065.8	1105.7	1121.6
30°	981.9	997.9	1039.8	1081.7	1099.7
32.5°	950.0	966.0	1009.9	1053.8	1073.7
35°	914.1	934.0	976.0	1021.9	1041.8
37.5°	876.2	894.1	940.0	983.9	1001.9
40°	836.2	854.2	898.1	944.0	962.0
42.5°	794.3	812.3	854.2	898.1	918.1
45°	750.4	764.4	808.3	850.2	866.2
47.5°	704.5	714.5	756.4	796.3	812.3
50°	654.6	664.6	704.5	740.4	756.4
52.5°	600.7	608.7	646.6	678.6	696.5
55°	546.9	554.8	588.8	616.7	628.7
57.5°	493.0	497.0	526.9	554.8	566.8
60°	443.1	443.1	467.0	489.0	504.9
62.5°	385.2	391.2	409.1	431.1	437.1
65°	343.3	337.3	355.3	371.2	379.2
67.5°	295.4	291.4	303.4	317.3	321.3
70°	251.5	245.5	255.5	263.4	267.4
72.5°	205.6	203.6	207.6	213.6	215.5
75°	167.6	161.7	163.7	165.7	169.6
77.5°	133.7	123.7	125.7	123.7	125.7
80°	97.8	89.8	89.8	87.8	85.8
82.5°	65.9	61.9	57.9	53.9	51.9
85°	39.9	33.9	29.9	25.9	25.9
87.5°	16.0	12.0	10.0	10.0	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)