

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: P296618

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296618
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-3500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3473.0 lumens
Efficiency: N/A
Efficacy: 97.0 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

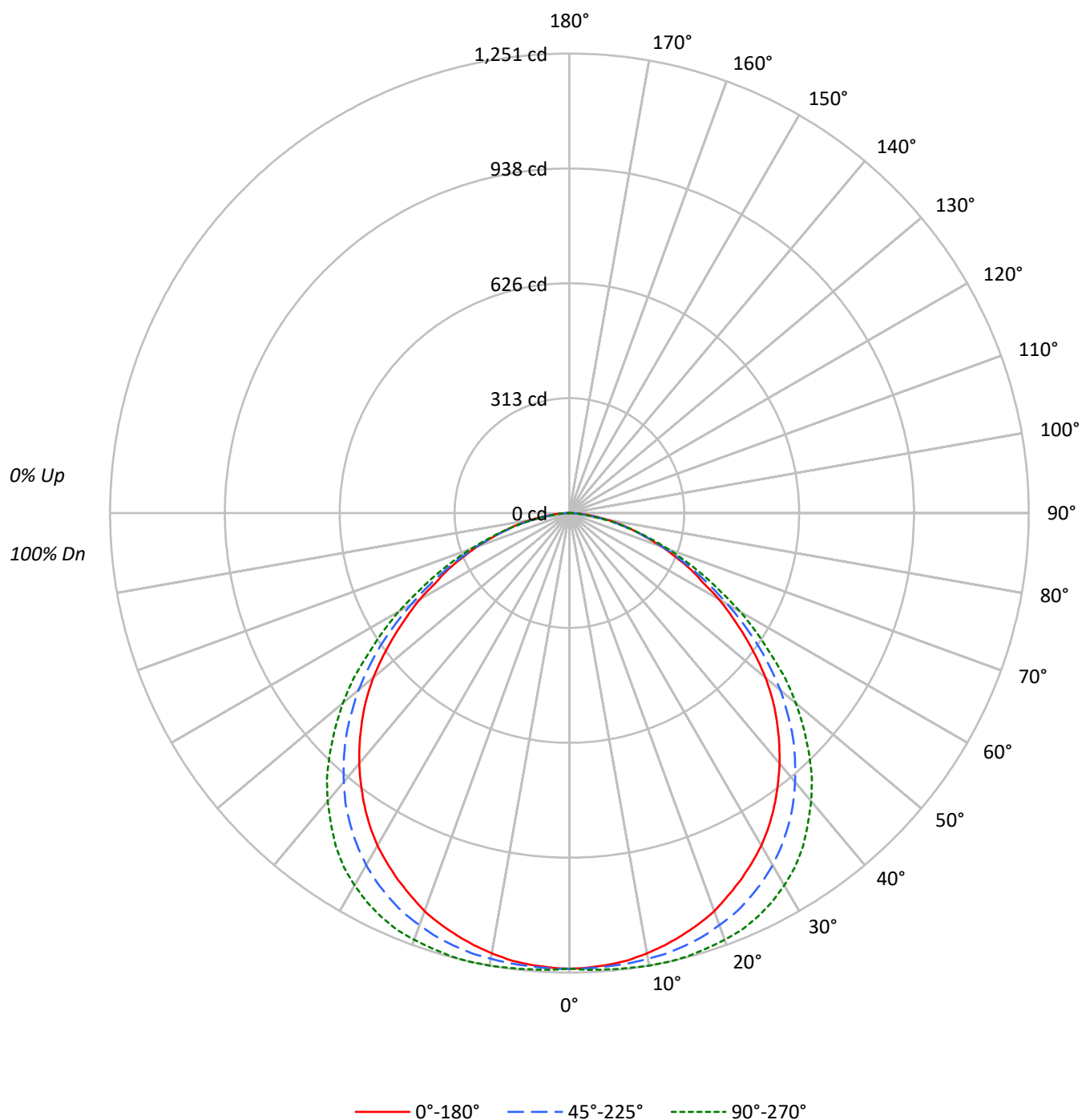
Input Watts (W): 35.805
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3338	3338	3338
5°	3334	3345	3368
10°	3326	3367	3419
15°	3314	3397	3480
20°	3303	3419	3540
25°	3274	3437	3602
30°	3247	3439	3637
35°	3196	3413	3643
40°	3127	3358	3597
45°	3040	3274	3508
50°	2917	3139	3370
55°	2730	2940	3139
60°	2538	2675	2892
65°	2327	2408	2570
70°	2106	2139	2240
75°	1855	1811	1878
80°	1613	1481	1415
85°	1312	985	852



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.1	3.4
10°-20°	344.5	9.9
20°-30°	533.7	15.4
30°-40°	649.5	18.7
40°-50°	661.5	19.0
50°-60°	557.8	16.1
60°-70°	377.4	10.9
70°-80°	188.6	5.4
80°-90°	42.0	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°	996.3	28.7
0°-40°	1645.8	47.4
0°-60°	2865.1	82.5
0°-90°	3473.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3473.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1241	1241	1241	1241	1241	
5°	1234	1236	1238	1245	1247	117
15°	1190	1198	1219	1241	1249	336
25°	1102	1120	1158	1196	1213	508
35°	973	994	1039	1088	1109	608
45°	799	814	860	905	922	615
55°	582	590	627	656	669	521
65°	365	359	378	395	404	361
75°	178	172	174	176	181	191
85°	42	36	32	28	28	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1240.6	1240.6	1240.6	1240.6	1240.6
2.5°	1238.4	1238.4	1240.6	1242.7	1244.8
5°	1234.2	1236.3	1238.4	1244.8	1246.9
7.5°	1227.8	1229.9	1236.3	1244.8	1249.1
10°	1217.2	1221.4	1232.1	1244.8	1251.2
12.5°	1204.5	1210.8	1227.8	1242.7	1251.2
15°	1189.6	1198.1	1219.3	1240.6	1249.1
17.5°	1172.6	1183.2	1208.7	1232.1	1242.7
20°	1153.5	1166.2	1193.8	1223.6	1236.3
22.5°	1128.0	1145.0	1179.0	1213.0	1227.8
25°	1102.5	1119.5	1157.7	1196.0	1213.0
27.5°	1074.9	1094.0	1134.4	1176.8	1193.8
30°	1045.1	1062.1	1106.7	1151.3	1170.5
32.5°	1011.1	1028.1	1074.9	1121.6	1142.9
35°	972.9	994.2	1038.8	1087.6	1108.9
37.5°	932.5	951.7	1000.5	1047.3	1066.4
40°	890.1	909.2	955.9	1004.8	1023.9
42.5°	845.5	864.6	909.2	955.9	977.2
45°	798.7	813.6	860.3	904.9	921.9
47.5°	749.9	760.5	805.1	847.6	864.6
50°	696.8	707.4	749.9	788.1	805.1
52.5°	639.4	647.9	688.3	722.2	741.4
55°	582.0	590.5	626.7	656.4	669.1
57.5°	524.7	528.9	560.8	590.5	603.3
60°	471.6	471.6	497.1	520.4	537.4
62.5°	410.0	416.4	435.5	458.8	465.2
65°	365.4	359.0	378.1	395.1	403.6
67.5°	314.4	310.1	322.9	337.8	342.0
70°	267.7	261.3	271.9	280.4	284.7
72.5°	218.8	216.7	220.9	227.3	229.4
75°	178.4	172.1	174.2	176.3	180.6
77.5°	142.3	131.7	133.8	131.7	133.8
80°	104.1	95.6	95.6	93.5	91.3
82.5°	70.1	65.9	61.6	57.4	55.2
85°	42.5	36.1	31.9	27.6	27.6
87.5°	17.0	12.7	10.6	10.6	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)