

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: P296566

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296566
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-L83050-W2A1-U-3000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3361.0 lumens
Efficiency: N/A
Efficacy: 94.6 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

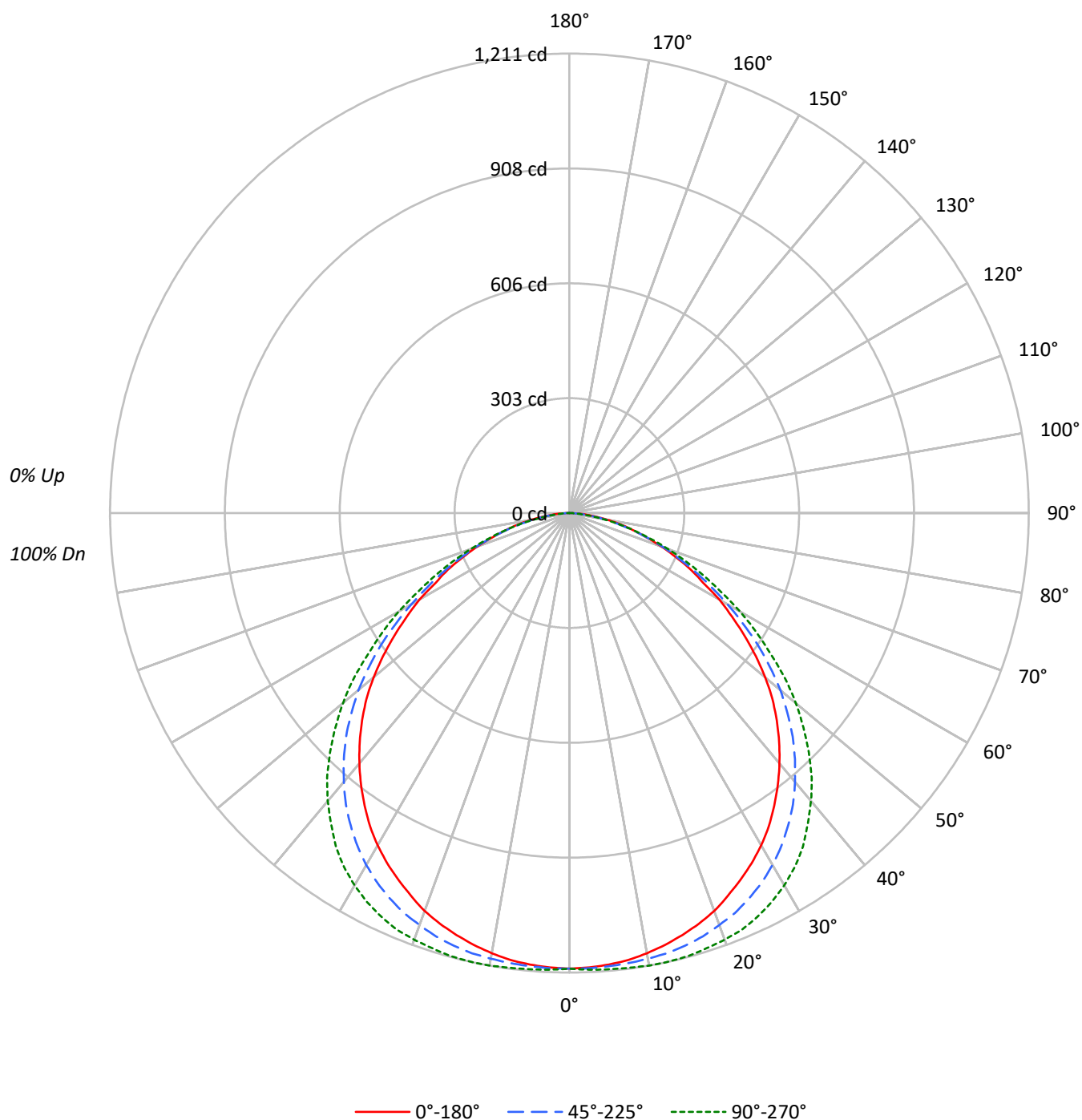
Input Watts (W): 35.526
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	3231	3231	3231
5°	3226	3237	3260
10°	3219	3258	3309
15°	3207	3287	3368
20°	3197	3308	3426
25°	3168	3327	3485
30°	3143	3328	3520
35°	3093	3302	3525
40°	3026	3250	3481
45°	2942	3169	3395
50°	2823	3038	3262
55°	2643	2845	3038
60°	2456	2589	2799
65°	2252	2330	2487
70°	2038	2070	2168
75°	1796	1753	1816
80°	1561	1433	1370
85°	1269	951	824



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.3	3.4
10°-20°	333.3	9.9
20°-30°	516.5	15.4
30°-40°	628.6	18.7
40°-50°	640.2	19.0
50°-60°	539.9	16.1
60°-70°	365.2	10.9
70°-80°	182.5	5.4
80°-90°	40.6	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°	964.1	28.7
0°-40°	1592.7	47.4
0°-60°	2772.7	82.5
0°-90°	3361.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3361.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1201	1201	1201	1201	1201	
5°	1194	1196	1198	1205	1207	114
15°	1151	1159	1180	1201	1209	325
25°	1067	1083	1120	1157	1174	492
35°	942	962	1005	1052	1073	588
45°	773	787	833	876	892	595
55°	563	572	606	635	648	504
65°	354	347	366	382	391	349
75°	173	166	169	171	175	185
85°	41	35	31	27	27	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1200.6	1200.6	1200.6	1200.6	1200.6
2.5°	1198.5	1198.5	1200.6	1202.6	1204.7
5°	1194.4	1196.4	1198.5	1204.7	1206.7
7.5°	1188.2	1190.3	1196.4	1204.7	1208.8
10°	1177.9	1182.1	1192.3	1204.7	1210.8
12.5°	1165.6	1171.8	1188.2	1202.6	1210.8
15°	1151.2	1159.4	1180.0	1200.6	1208.8
17.5°	1134.8	1145.1	1169.7	1192.3	1202.6
20°	1116.3	1128.6	1155.3	1184.1	1196.4
22.5°	1091.6	1108.1	1140.9	1173.8	1188.2
25°	1066.9	1083.4	1120.4	1157.4	1173.8
27.5°	1040.2	1058.7	1097.8	1138.9	1155.3
30°	1011.4	1027.9	1071.0	1114.2	1132.7
32.5°	978.5	995.0	1040.2	1085.4	1106.0
35°	941.5	962.1	1005.3	1052.5	1073.1
37.5°	902.5	921.0	968.3	1013.5	1032.0
40°	861.4	879.9	925.1	972.4	990.9
42.5°	818.2	836.7	879.9	925.1	945.6
45°	773.0	787.4	832.6	875.8	892.2
47.5°	725.7	736.0	779.1	820.2	836.7
50°	674.3	684.6	725.7	762.7	779.1
52.5°	618.8	627.0	666.1	699.0	717.5
55°	563.3	571.5	606.4	635.2	647.6
57.5°	507.8	511.9	542.7	571.5	583.8
60°	456.4	456.4	481.0	503.7	520.1
62.5°	396.8	402.9	421.4	444.0	450.2
65°	353.6	347.4	365.9	382.4	390.6
67.5°	304.3	300.1	312.5	326.9	331.0
70°	259.0	252.9	263.1	271.4	275.5
72.5°	211.7	209.7	213.8	220.0	222.0
75°	172.7	166.5	168.6	170.6	174.7
77.5°	137.7	127.5	129.5	127.5	129.5
80°	100.7	92.5	92.5	90.5	88.4
82.5°	67.8	63.7	59.6	55.5	53.4
85°	41.1	34.9	30.8	26.7	26.7
87.5°	16.4	12.3	10.3	10.3	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)