

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: P296617

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296617
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-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: 3357.0 lumens
Efficiency: N/A
Efficacy: 95.0 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

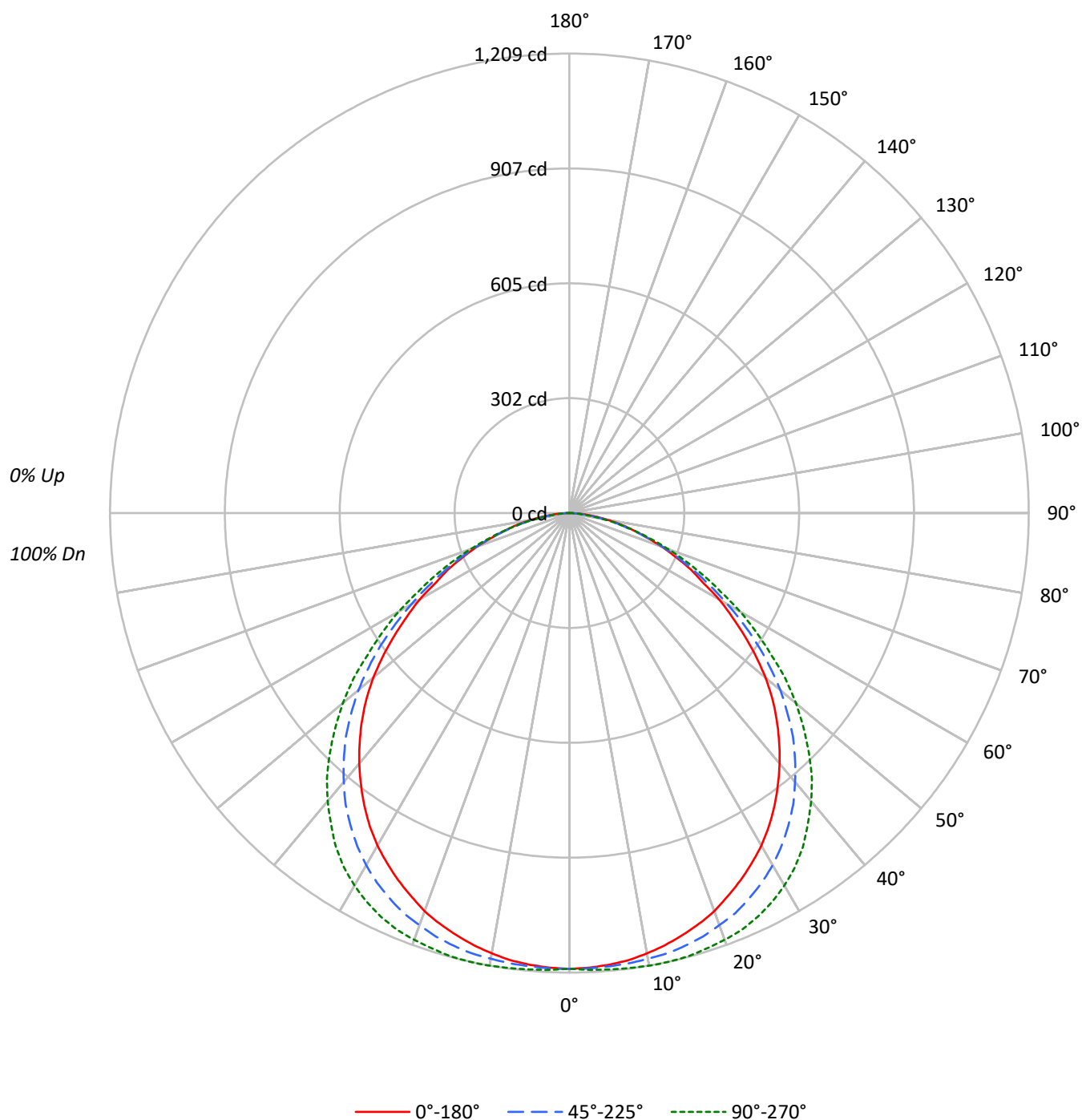
Input Watts (W): 35.34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3227	3227	3227
5°	3223	3234	3256
10°	3215	3254	3305
15°	3204	3283	3363
20°	3193	3305	3422
25°	3164	3323	3481
30°	3139	3324	3516
35°	3089	3299	3521
40°	3022	3246	3477
45°	2938	3165	3391
50°	2820	3034	3258
55°	2639	2842	3035
60°	2453	2586	2796
65°	2249	2327	2484
70°	2035	2068	2164
75°	1794	1751	1814
80°	1559	1432	1368
85°	1269	951	824



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.2	3.4
10°-20°	332.9	9.9
20°-30°	515.8	15.4
30°-40°	627.8	18.7
40°-50°	639.4	19.0
50°-60°	539.2	16.1
60°-70°	364.8	10.9
70°-80°	182.3	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°	963.0	28.7
0°-40°	1590.8	47.4
0°-60°	2769.4	82.5
0°-90°	3357.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3357.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1199	1199	1199	1199	1199	
5°	1193	1195	1197	1203	1205	113
15°	1150	1158	1179	1199	1207	325
25°	1066	1082	1119	1156	1172	491
35°	940	961	1004	1051	1072	588
45°	772	786	832	875	891	595
55°	563	571	606	634	647	503
65°	353	347	366	382	390	349
75°	172	166	168	170	174	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°	1199.1	1199.1	1199.1	1199.1	1199.1
2.5°	1197.1	1197.1	1199.1	1201.2	1203.2
5°	1193.0	1195.0	1197.1	1203.2	1205.3
7.5°	1186.8	1188.9	1195.0	1203.2	1207.3
10°	1176.5	1180.7	1190.9	1203.2	1209.4
12.5°	1164.2	1170.4	1186.8	1201.2	1209.4
15°	1149.9	1158.1	1178.6	1199.1	1207.3
17.5°	1133.4	1143.7	1168.3	1190.9	1201.2
20°	1114.9	1127.3	1154.0	1182.7	1195.0
22.5°	1090.3	1106.7	1139.6	1172.4	1186.8
25°	1065.7	1082.1	1119.1	1156.0	1172.4
27.5°	1039.0	1057.5	1096.5	1137.5	1154.0
30°	1010.2	1026.7	1069.8	1112.9	1131.4
32.5°	977.4	993.8	1039.0	1084.1	1104.7
35°	940.4	960.9	1004.1	1051.3	1071.8
37.5°	901.4	919.9	967.1	1012.3	1030.8
40°	860.3	878.8	924.0	971.2	989.7
42.5°	817.2	835.7	878.8	924.0	944.5
45°	772.0	786.4	831.6	874.7	891.1
47.5°	724.8	735.1	778.2	819.3	835.7
50°	673.5	683.8	724.8	761.8	778.2
52.5°	618.0	626.3	665.3	698.1	716.6
55°	562.6	570.8	605.7	634.5	646.8
57.5°	507.2	511.3	542.1	570.8	583.1
60°	455.8	455.8	480.5	503.1	519.5
62.5°	396.3	402.4	420.9	443.5	449.7
65°	353.2	347.0	365.5	381.9	390.1
67.5°	303.9	299.8	312.1	326.5	330.6
70°	258.7	252.6	262.8	271.0	275.1
72.5°	211.5	209.4	213.5	219.7	221.8
75°	172.5	166.3	168.4	170.4	174.5
77.5°	137.6	127.3	129.4	127.3	129.4
80°	100.6	92.4	92.4	90.3	88.3
82.5°	67.8	63.7	59.5	55.4	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)