

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: P296653

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296653
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-L93050-W2A1-U-4500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3322.0 lumens
Efficiency: N/A
Efficacy: 89.5 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

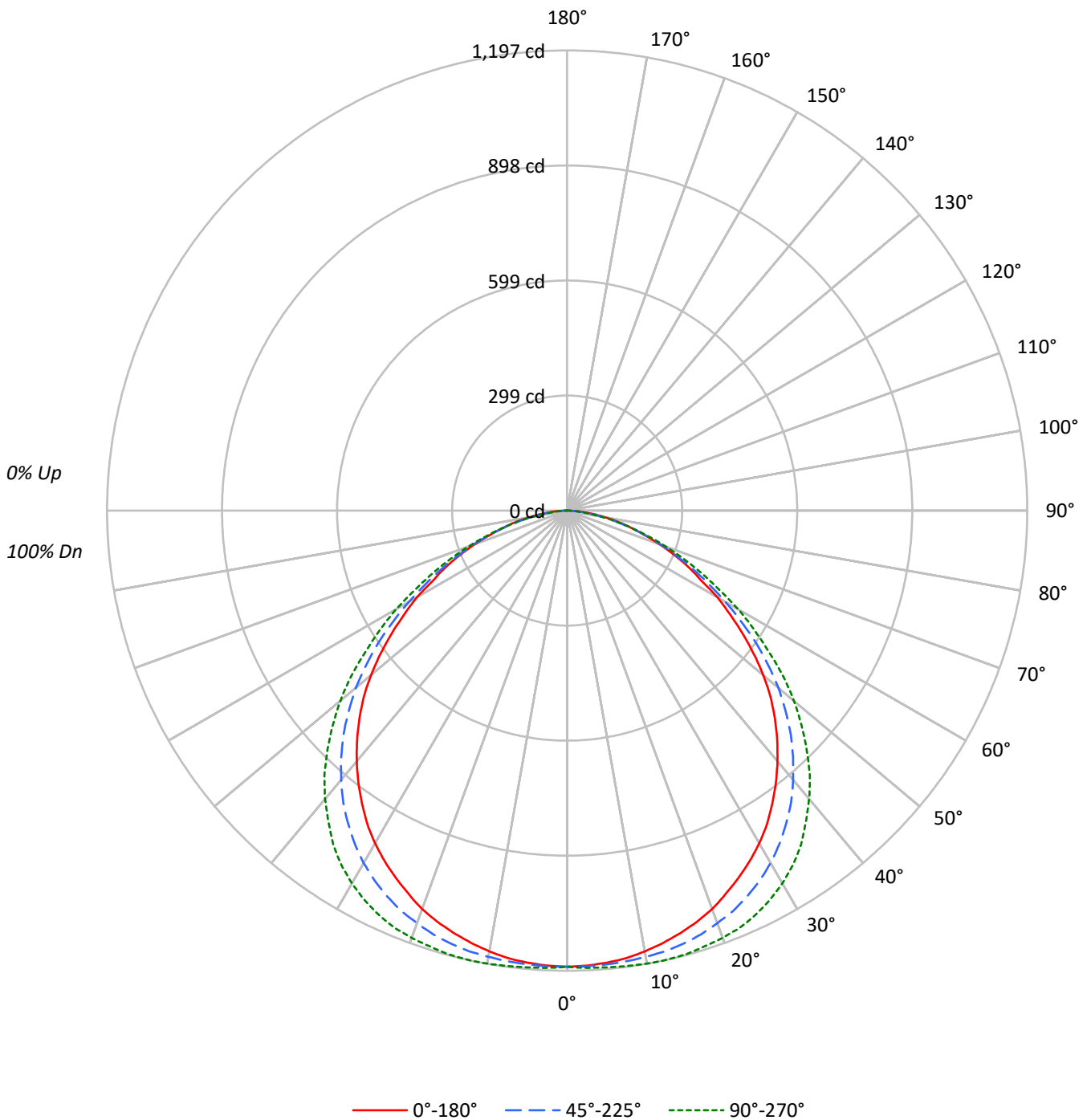
Input Watts (W): 37.107
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3193	3193	3193
5°	3189	3200	3222
10°	3181	3220	3270
15°	3170	3249	3329
20°	3159	3270	3387
25°	3131	3288	3445
30°	3106	3289	3479
35°	3057	3264	3484
40°	2991	3212	3440
45°	2907	3132	3356
50°	2790	3003	3224
55°	2612	2812	3003
60°	2428	2559	2767
65°	2225	2303	2458
70°	2014	2046	2142
75°	1775	1732	1796
80°	1543	1416	1354
85°	1254	942	815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.0	3.4
10°-20°	329.5	9.9
20°-30°	510.5	15.4
30°-40°	621.3	18.7
40°-50°	632.7	19.0
50°-60°	533.6	16.1
60°-70°	361.0	10.9
70°-80°	180.4	5.4
80°-90°	40.1	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°	952.9	28.7
0°-40°	1574.2	47.4
0°-60°	2740.5	82.5
0°-90°	3322.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3322.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1187	1187	1187	1187	1187	
5°	1180	1183	1185	1191	1193	112
15°	1138	1146	1166	1187	1195	321
25°	1055	1071	1107	1144	1160	486
35°	931	951	994	1040	1061	582
45°	764	778	823	866	882	588
55°	557	565	599	628	640	498
65°	350	343	362	378	386	345
75°	171	165	167	169	173	183
85°	41	34	30	26	26	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1186.6	1186.6	1186.6	1186.6	1186.6
2.5°	1184.6	1184.6	1186.6	1188.7	1190.7
5°	1180.5	1182.6	1184.6	1190.7	1192.7
7.5°	1174.4	1176.5	1182.6	1190.7	1194.8
10°	1164.3	1168.3	1178.5	1190.7	1196.8
12.5°	1152.1	1158.2	1174.4	1188.7	1196.8
15°	1137.9	1146.0	1166.3	1186.6	1194.8
17.5°	1121.6	1131.8	1156.2	1178.5	1188.7
20°	1103.3	1115.5	1141.9	1170.4	1182.6
22.5°	1078.9	1095.2	1127.7	1160.2	1174.4
25°	1054.6	1070.8	1107.4	1144.0	1160.2
27.5°	1028.1	1046.4	1085.0	1125.7	1141.9
30°	999.7	1016.0	1058.6	1101.3	1119.6
32.5°	967.2	983.4	1028.1	1072.8	1093.2
35°	930.6	950.9	993.6	1040.3	1060.7
37.5°	892.0	910.3	957.0	1001.7	1020.0
40°	851.4	869.7	914.4	961.1	979.4
42.5°	808.7	827.0	869.7	914.4	934.7
45°	764.0	778.2	822.9	865.6	881.8
47.5°	717.3	727.4	770.1	810.7	827.0
50°	666.5	676.6	717.3	753.8	770.1
52.5°	611.6	619.7	658.3	690.8	709.1
55°	556.7	564.9	599.4	627.9	640.0
57.5°	501.9	505.9	536.4	564.9	577.1
60°	451.1	451.1	475.5	497.8	514.1
62.5°	392.2	398.3	416.5	438.9	445.0
65°	349.5	343.4	361.7	377.9	386.1
67.5°	300.7	296.7	308.8	323.1	327.1
70°	256.0	249.9	260.1	268.2	272.3
72.5°	209.3	207.3	211.3	217.4	219.4
75°	170.7	164.6	166.6	168.6	172.7
77.5°	136.1	126.0	128.0	126.0	128.0
80°	99.6	91.4	91.4	89.4	87.4
82.5°	67.1	63.0	58.9	54.9	52.8
85°	40.6	34.5	30.5	26.4	26.4
87.5°	16.3	12.2	10.2	10.2	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)