

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: P296703

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296703
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-L92765-W2A1-U-4000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3141.0 lumens
Efficiency: N/A
Efficacy: 87.3 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

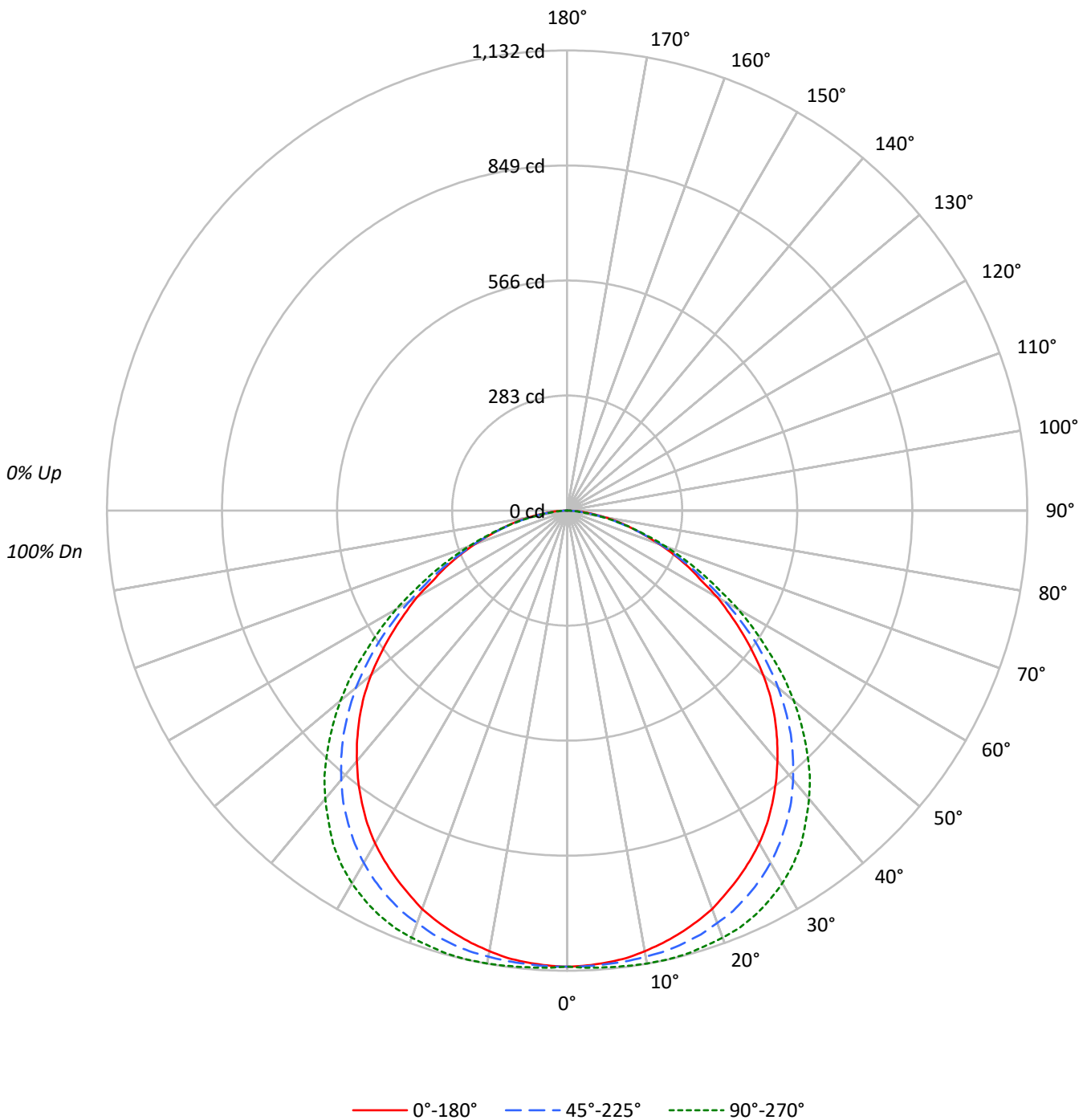
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3019	3019	3019
5°	3015	3026	3046
10°	3008	3045	3092
15°	2997	3072	3147
20°	2987	3092	3202
25°	2961	3109	3257
30°	2937	3110	3289
35°	2891	3086	3295
40°	2828	3037	3253
45°	2749	2961	3173
50°	2638	2839	3048
55°	2470	2659	2839
60°	2295	2420	2616
65°	2104	2178	2324
70°	1905	1935	2025
75°	1678	1638	1698
80°	1458	1340	1280
85°	1186	889	772



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	3.4
10°-20°	311.5	9.9
20°-30°	482.6	15.4
30°-40°	587.4	18.7
40°-50°	598.3	19.0
50°-60°	504.5	16.1
60°-70°	341.3	10.9
70°-80°	170.5	5.4
80°-90°	37.9	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°	901.0	28.7
0°-40°	1488.4	47.4
0°-60°	2591.2	82.5
0°-90°	3141.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3141.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1122	1122	1122	1122	1122	
5°	1116	1118	1120	1126	1128	106
15°	1076	1084	1103	1122	1130	304
25°	997	1012	1047	1082	1097	460
35°	880	899	940	984	1003	550
45°	722	736	778	818	834	556
55°	526	534	567	594	605	471
65°	330	325	342	357	365	326
75°	161	156	158	160	163	173
85°	38	33	29	25	25	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1122.0	1122.0	1122.0	1122.0	1122.0
2.5°	1120.1	1120.1	1122.0	1123.9	1125.8
5°	1116.2	1118.1	1120.1	1125.8	1127.7
7.5°	1110.4	1112.4	1118.1	1125.8	1129.7
10°	1100.8	1104.7	1114.3	1125.8	1131.6
12.5°	1089.3	1095.1	1110.4	1123.9	1131.6
15°	1075.9	1083.6	1102.8	1122.0	1129.7
17.5°	1060.5	1070.1	1093.2	1114.3	1123.9
20°	1043.2	1054.7	1079.7	1106.6	1118.1
22.5°	1020.2	1035.5	1066.3	1097.0	1110.4
25°	997.1	1012.5	1047.0	1081.6	1097.0
27.5°	972.1	989.4	1025.9	1064.3	1079.7
30°	945.2	960.6	1000.9	1041.3	1058.6
32.5°	914.5	929.9	972.1	1014.4	1033.6
35°	879.9	899.1	939.5	983.7	1002.9
37.5°	843.4	860.7	904.9	947.1	964.4
40°	805.0	822.3	864.5	908.7	926.0
42.5°	764.6	781.9	822.3	864.5	883.7
45°	722.4	735.8	778.1	818.4	833.8
47.5°	678.2	687.8	728.1	766.6	781.9
50°	630.2	639.8	678.2	712.8	728.1
52.5°	578.3	586.0	622.5	653.2	670.5
55°	526.4	534.1	566.8	593.6	605.2
57.5°	474.5	478.4	507.2	534.1	545.6
60°	426.5	426.5	449.6	470.7	486.1
62.5°	370.8	376.6	393.8	415.0	420.7
65°	330.4	324.7	342.0	357.3	365.0
67.5°	284.3	280.5	292.0	305.5	309.3
70°	242.1	236.3	245.9	253.6	257.4
72.5°	197.9	196.0	199.8	205.6	207.5
75°	161.4	155.6	157.5	159.5	163.3
77.5°	128.7	119.1	121.0	119.1	121.0
80°	94.1	86.5	86.5	84.5	82.6
82.5°	63.4	59.6	55.7	51.9	50.0
85°	38.4	32.7	28.8	25.0	25.0
87.5°	15.4	11.5	9.6	9.6	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)