

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: P296704

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296704
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-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: 3222.0 lumens
Efficiency: N/A
Efficacy: 88.8 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

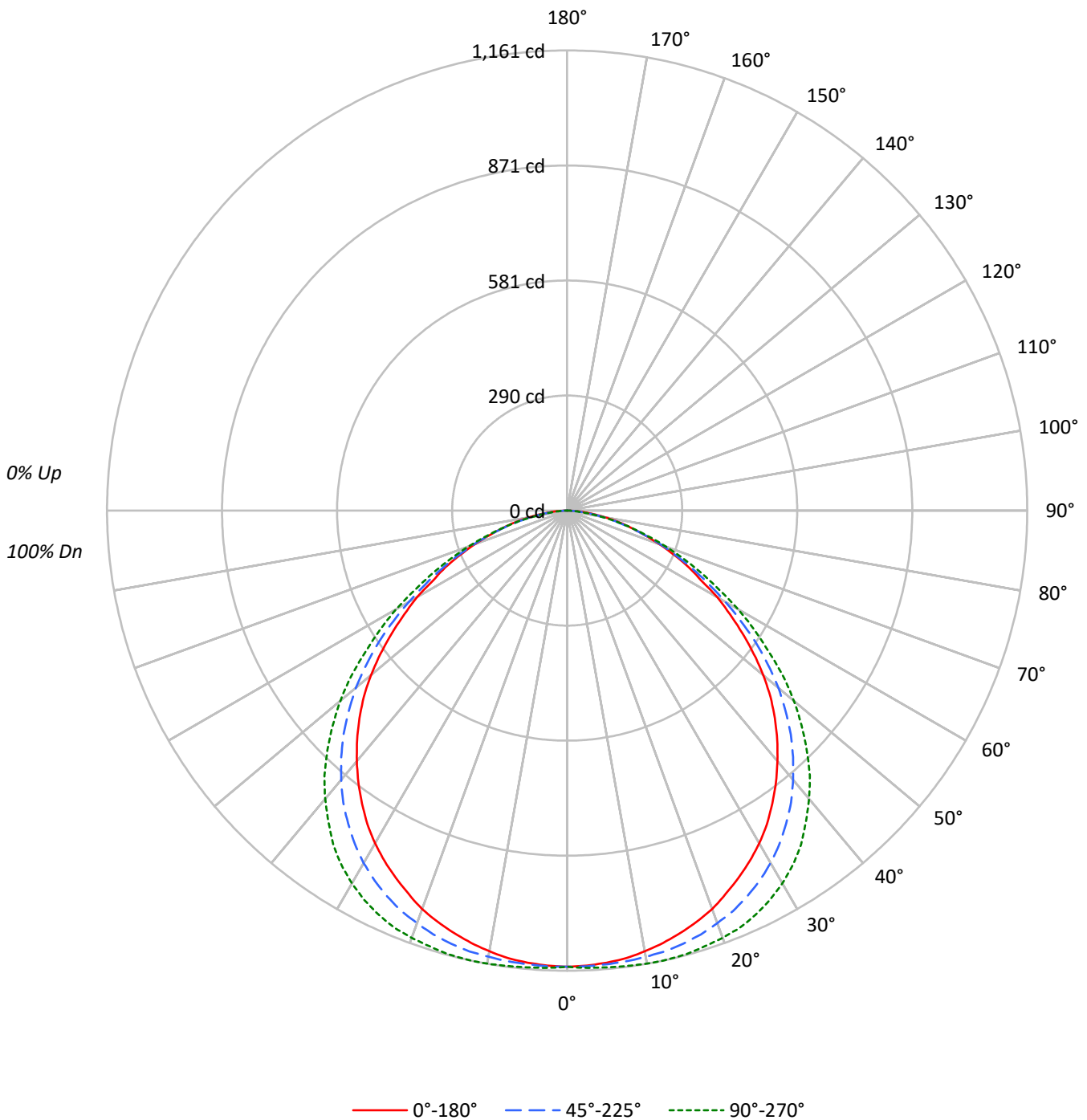
Input Watts (W): 36.27
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3097	3097	3097
5°	3093	3103	3125
10°	3086	3123	3172
15°	3075	3151	3228
20°	3064	3172	3285
25°	3037	3189	3341
30°	3013	3191	3374
35°	2965	3166	3379
40°	2901	3115	3337
45°	2820	3037	3255
50°	2706	2912	3127
55°	2533	2728	2913
60°	2355	2482	2683
65°	2159	2234	2384
70°	1954	1985	2078
75°	1721	1680	1742
80°	1497	1375	1313
85°	1216	914	790



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.6	3.4
10°-20°	319.6	9.9
20°-30°	495.1	15.4
30°-40°	602.6	18.7
40°-50°	613.7	19.0
50°-60°	517.5	16.1
60°-70°	350.1	10.9
70°-80°	175.0	5.4
80°-90°	38.9	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°	924.3	28.7
0°-40°	1526.8	47.4
0°-60°	2658.1	82.5
0°-90°	3222.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3222.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1151	1151	1151	1151	1151	
5°	1145	1147	1149	1155	1157	109
15°	1104	1112	1131	1151	1159	312
25°	1023	1039	1074	1110	1125	472
35°	903	922	964	1009	1029	564
45°	741	755	798	840	855	571
55°	540	548	581	609	621	483
65°	339	333	351	367	374	335
75°	166	160	162	164	168	177
85°	39	34	30	26	26	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1150.9	1150.9	1150.9	1150.9	1150.9
2.5°	1148.9	1148.9	1150.9	1152.9	1154.9
5°	1145.0	1147.0	1148.9	1154.9	1156.8
7.5°	1139.1	1141.1	1147.0	1154.9	1158.8
10°	1129.2	1133.2	1143.0	1154.9	1160.8
12.5°	1117.4	1123.3	1139.1	1152.9	1160.8
15°	1103.6	1111.5	1131.2	1150.9	1158.8
17.5°	1087.8	1097.7	1121.3	1143.0	1152.9
20°	1070.1	1081.9	1107.6	1135.1	1147.0
22.5°	1046.5	1062.2	1093.8	1125.3	1139.1
25°	1022.8	1038.6	1074.1	1109.5	1125.3
27.5°	997.2	1014.9	1052.4	1091.8	1107.6
30°	969.6	985.4	1026.8	1068.1	1085.9
32.5°	938.1	953.8	997.2	1040.5	1060.3
35°	902.6	922.3	963.7	1009.0	1028.7
37.5°	865.2	882.9	928.2	971.6	989.3
40°	825.7	843.5	886.8	932.2	949.9
42.5°	784.4	802.1	843.5	886.8	906.5
45°	741.0	754.8	798.1	839.5	855.3
47.5°	695.7	705.5	746.9	786.3	802.1
50°	646.4	656.3	695.7	731.1	746.9
52.5°	593.2	601.1	638.5	670.0	687.8
55°	540.0	547.9	581.4	609.0	620.8
57.5°	486.8	490.7	520.3	547.9	559.7
60°	437.5	437.5	461.2	482.8	498.6
62.5°	380.4	386.3	404.0	425.7	431.6
65°	339.0	333.1	350.8	366.6	374.4
67.5°	291.7	287.7	299.6	313.3	317.3
70°	248.3	242.4	252.3	260.1	264.1
72.5°	203.0	201.0	205.0	210.9	212.8
75°	165.5	159.6	161.6	163.6	167.5
77.5°	132.0	122.2	124.2	122.2	124.2
80°	96.6	88.7	88.7	86.7	84.7
82.5°	65.0	61.1	57.2	53.2	51.2
85°	39.4	33.5	29.6	25.6	25.6
87.5°	15.8	11.8	9.9	9.9	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)