

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: P296708

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296708
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-6500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3375.0 lumens
Efficiency: N/A
Efficacy: 90.5 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

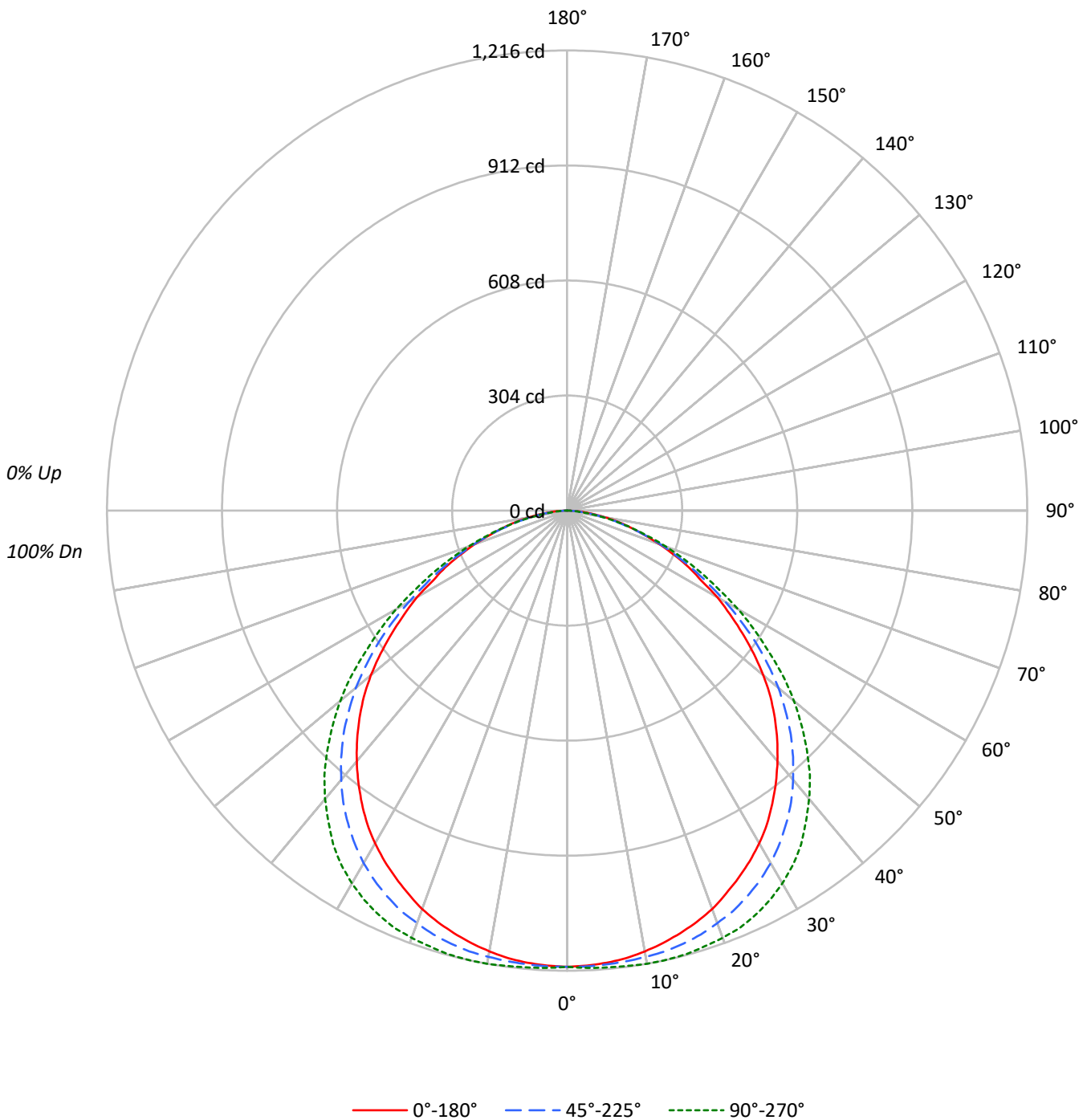
Input Watts (W): 37.293
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3244	3244	3244
5°	3240	3251	3273
10°	3232	3272	3322
15°	3221	3301	3382
20°	3210	3322	3440
25°	3181	3341	3500
30°	3156	3342	3534
35°	3106	3316	3540
40°	3038	3263	3495
45°	2954	3181	3409
50°	2835	3051	3275
55°	2654	2857	3051
60°	2467	2600	2811
65°	2261	2339	2497
70°	2046	2079	2176
75°	1803	1760	1825
80°	1568	1440	1376
85°	1275	957	827



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	3.4
10°-20°	334.7	9.9
20°-30°	518.6	15.4
30°-40°	631.2	18.7
40°-50°	642.8	19.0
50°-60°	542.1	16.1
60°-70°	366.7	10.9
70°-80°	183.3	5.4
80°-90°	40.8	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°	968.1	28.7
0°-40°	1599.3	47.4
0°-60°	2784.3	82.5
0°-90°	3375.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3375.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1206	1206	1206	1206	1206	
5°	1199	1201	1204	1210	1212	114
15°	1156	1164	1185	1206	1214	326
25°	1071	1088	1125	1162	1179	494
35°	946	966	1010	1057	1078	591
45°	776	791	836	879	896	598
55°	566	574	609	638	650	506
65°	355	349	367	384	392	351
75°	173	167	169	171	176	186
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°	1205.6	1205.6	1205.6	1205.6	1205.6
2.5°	1203.5	1203.5	1205.6	1207.6	1209.7
5°	1199.4	1201.4	1203.5	1209.7	1211.8
7.5°	1193.2	1195.2	1201.4	1209.7	1213.8
10°	1182.9	1187.0	1197.3	1209.7	1215.9
12.5°	1170.5	1176.7	1193.2	1207.6	1215.9
15°	1156.0	1164.3	1184.9	1205.6	1213.8
17.5°	1139.5	1149.8	1174.6	1197.3	1207.6
20°	1120.9	1133.3	1160.1	1189.0	1201.4
22.5°	1096.2	1112.7	1145.7	1178.7	1193.2
25°	1071.4	1087.9	1125.1	1162.2	1178.7
27.5°	1044.5	1063.1	1102.3	1143.6	1160.1
30°	1015.6	1032.2	1075.5	1118.9	1137.4
32.5°	982.6	999.1	1044.5	1090.0	1110.6
35°	945.5	966.1	1009.5	1056.9	1077.6
37.5°	906.2	924.8	972.3	1017.7	1036.3
40°	864.9	883.5	928.9	976.4	995.0
42.5°	821.6	840.2	883.5	928.9	949.6
45°	776.2	790.6	836.0	879.4	895.9
47.5°	728.7	739.0	782.4	823.7	840.2
50°	677.1	687.4	728.7	765.9	782.4
52.5°	621.4	629.6	668.8	701.9	720.4
55°	565.6	573.9	609.0	637.9	650.3
57.5°	509.9	514.0	545.0	573.9	586.3
60°	458.3	458.3	483.1	505.8	522.3
62.5°	398.4	404.6	423.2	445.9	452.1
65°	355.1	348.9	367.4	384.0	392.2
67.5°	305.5	301.4	313.8	328.2	332.4
70°	260.1	253.9	264.2	272.5	276.6
72.5°	212.6	210.6	214.7	220.9	222.9
75°	173.4	167.2	169.3	171.3	175.5
77.5°	138.3	128.0	130.1	128.0	130.1
80°	101.2	92.9	92.9	90.8	88.8
82.5°	68.1	64.0	59.9	55.7	53.7
85°	41.3	35.1	31.0	26.8	26.8
87.5°	16.5	12.4	10.3	10.3	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)