

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: P296626

Luminaire Tested: **22RLN-LD5-20-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296626
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-LD5-20-RDP-UNV-L93050-W2A1-U-3500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1383.0 lumens
Efficiency: N/A
Efficacy: 88.0 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

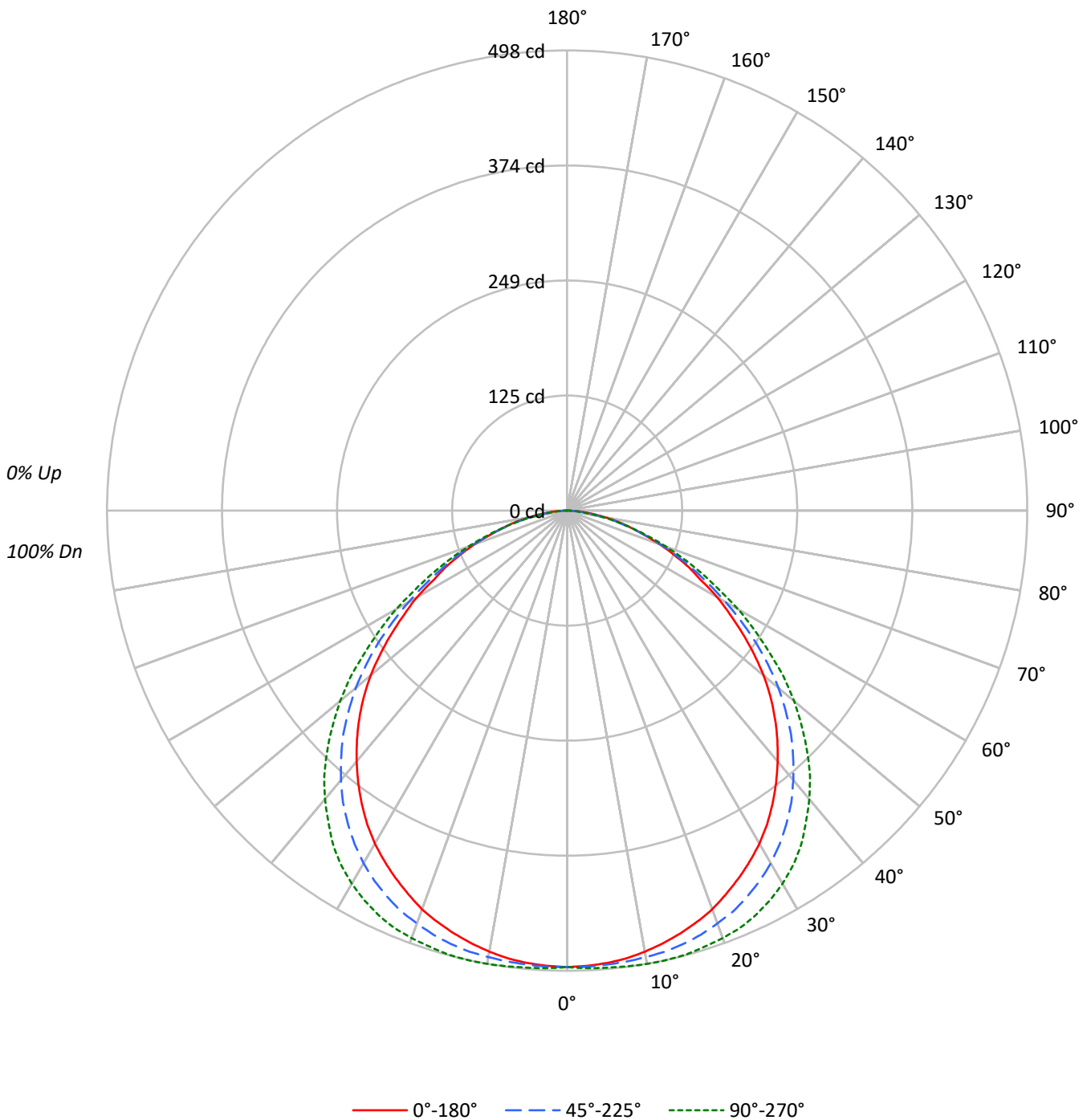
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1329	1329	1329
5°	1328	1332	1341
10°	1324	1341	1361
15°	1320	1353	1386
20°	1315	1361	1410
25°	1303	1369	1434
30°	1293	1369	1448
35°	1273	1359	1451
40°	1245	1337	1432
45°	1211	1304	1397
50°	1162	1250	1342
55°	1088	1171	1250
60°	1011	1065	1152
65°	926	959	1023
70°	839	852	892
75°	739	722	748
80°	642	590	564
85°	522	392	340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.0	3.4
10°-20°	137.2	9.9
20°-30°	212.5	15.4
30°-40°	258.6	18.7
40°-50°	263.4	19.0
50°-60°	222.1	16.1
60°-70°	150.3	10.9
70°-80°	75.1	5.4
80°-90°	16.7	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°	396.7	28.7
0°-40°	655.4	47.4
0°-60°	1140.9	82.5
0°-90°	1383.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1383.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	494	494	494	494	494	
5°	492	492	493	496	497	47
15°	474	477	486	494	497	134
25°	439	446	461	476	483	202
35°	387	396	414	433	442	242
45°	318	324	343	360	367	245
55°	232	235	250	261	266	207
65°	146	143	151	157	161	144
75°	71	68	69	70	72	76
85°	17	14	13	11	11	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	494.0	494.0	494.0	494.0	494.0
2.5°	493.2	493.2	494.0	494.9	495.7
5°	491.5	492.3	493.2	495.7	496.6
7.5°	488.9	489.8	492.3	495.7	497.4
10°	484.7	486.4	490.6	495.7	498.2
12.5°	479.6	482.2	488.9	494.9	498.2
15°	473.7	477.1	485.6	494.0	497.4
17.5°	466.9	471.2	481.3	490.6	494.9
20°	459.3	464.4	475.4	487.2	492.3
22.5°	449.2	455.9	469.5	483.0	488.9
25°	439.0	445.8	461.0	476.2	483.0
27.5°	428.0	435.6	451.7	468.6	475.4
30°	416.2	423.0	440.7	458.5	466.1
32.5°	402.7	409.4	428.0	446.6	455.1
35°	387.4	395.9	413.7	433.1	441.6
37.5°	371.4	379.0	398.4	417.0	424.6
40°	354.4	362.1	380.7	400.1	407.7
42.5°	336.7	344.3	362.1	380.7	389.1
45°	318.1	324.0	342.6	360.4	367.1
47.5°	298.6	302.8	320.6	337.5	344.3
50°	277.5	281.7	298.6	313.8	320.6
52.5°	254.6	258.0	274.1	287.6	295.2
55°	231.8	235.2	249.5	261.4	266.5
57.5°	208.9	210.6	223.3	235.2	240.2
60°	187.8	187.8	197.9	207.2	214.0
62.5°	163.3	165.8	173.4	182.7	185.3
65°	145.5	143.0	150.6	157.3	160.7
67.5°	125.2	123.5	128.6	134.5	136.2
70°	106.6	104.0	108.3	111.7	113.4
72.5°	87.1	86.3	88.0	90.5	91.4
75°	71.1	68.5	69.4	70.2	71.9
77.5°	56.7	52.4	53.3	52.4	53.3
80°	41.4	38.1	38.1	37.2	36.4
82.5°	27.9	26.2	24.5	22.8	22.0
85°	16.9	14.4	12.7	11.0	11.0
87.5°	6.8	5.1	4.2	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)