

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: P296659

Luminaire Tested: **22RLN-LD5-20-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296659
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-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: 1474.0 lumens
Efficiency: N/A
Efficacy: 93.8 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

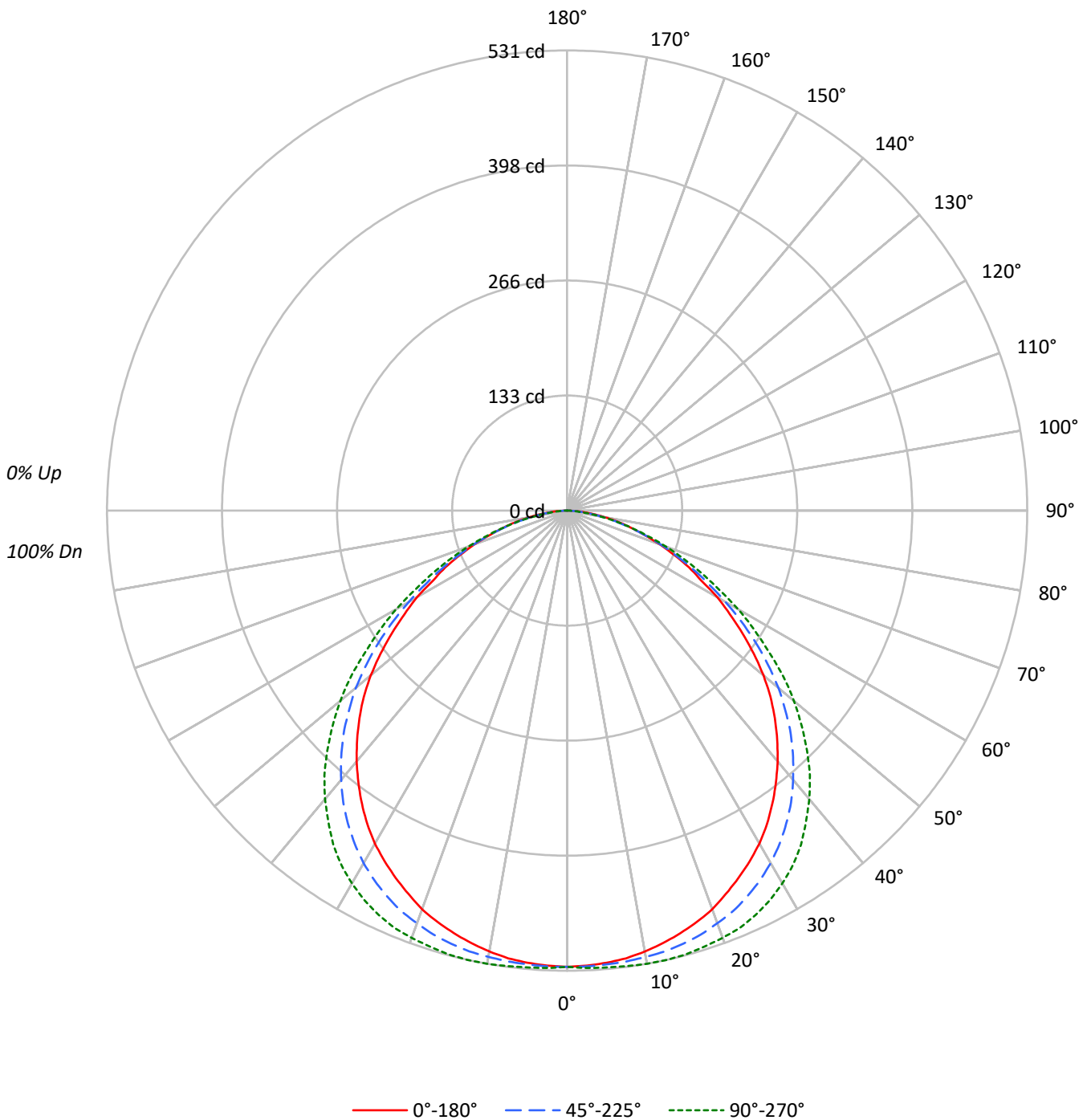
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1417	1417	1417
5°	1415	1420	1430
10°	1412	1429	1451
15°	1407	1442	1477
20°	1402	1451	1503
25°	1389	1459	1529
30°	1378	1459	1544
35°	1356	1448	1546
40°	1327	1425	1527
45°	1290	1389	1489
50°	1238	1333	1430
55°	1159	1248	1332
60°	1077	1136	1228
65°	988	1022	1091
70°	894	908	950
75°	787	768	796
80°	685	629	601
85°	556	417	361



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.1	3.4
10°-20°	146.2	9.9
20°-30°	226.5	15.4
30°-40°	275.7	18.7
40°-50°	280.8	19.0
50°-60°	236.8	16.1
60°-70°	160.1	10.9
70°-80°	80.0	5.4
80°-90°	17.8	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°	422.8	28.7
0°-40°	698.5	47.4
0°-60°	1216.0	82.5
0°-90°	1474.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1474.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	526	526	526	526	526	
5°	524	525	526	528	529	50
15°	505	508	518	526	530	143
25°	468	475	491	508	515	216
35°	413	422	441	462	471	258
45°	339	345	365	384	391	261
55°	247	251	266	279	284	221
65°	155	152	160	168	171	153
75°	76	73	74	75	77	81
85°	18	15	14	12	12	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	526.5	526.5	526.5	526.5	526.5
2.5°	525.6	525.6	526.5	527.4	528.3
5°	523.8	524.7	525.6	528.3	529.2
7.5°	521.1	522.0	524.7	528.3	530.1
10°	516.6	518.4	522.9	528.3	531.0
12.5°	511.2	513.9	521.1	527.4	531.0
15°	504.9	508.5	517.5	526.5	530.1
17.5°	497.7	502.2	513.0	522.9	527.4
20°	489.6	495.0	506.7	519.3	524.7
22.5°	478.7	485.9	500.4	514.8	521.1
25°	467.9	475.1	491.4	507.6	514.8
27.5°	456.2	464.3	481.4	499.5	506.7
30°	443.6	450.8	469.7	488.7	496.8
32.5°	429.1	436.4	456.2	476.0	485.0
35°	412.9	421.9	440.9	461.6	470.6
37.5°	395.8	403.9	424.6	444.5	452.6
40°	377.8	385.9	405.7	426.4	434.6
42.5°	358.8	366.9	385.9	405.7	414.7
45°	339.0	345.3	365.1	384.1	391.3
47.5°	318.3	322.8	341.7	359.7	366.9
50°	295.7	300.2	318.3	334.5	341.7
52.5°	271.4	275.0	292.1	306.5	314.6
55°	247.0	250.6	266.0	278.6	284.0
57.5°	222.7	224.5	238.0	250.6	256.0
60°	200.1	200.1	211.0	220.9	228.1
62.5°	174.0	176.7	184.8	194.7	197.4
65°	155.1	152.4	160.5	167.7	171.3
67.5°	133.4	131.6	137.0	143.3	145.2
70°	113.6	110.9	115.4	119.0	120.8
72.5°	92.9	92.0	93.8	96.5	97.4
75°	75.7	73.0	73.9	74.8	76.6
77.5°	60.4	55.9	56.8	55.9	56.8
80°	44.2	40.6	40.6	39.7	38.8
82.5°	29.8	27.9	26.1	24.3	23.4
85°	18.0	15.3	13.5	11.7	11.7
87.5°	7.2	5.4	4.5	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)