

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: P229632

Luminaire Tested: **22RLN-LD5-20-RDP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060)
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-L935-CD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH RDP LENS
Light Source: (126)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1408.0 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

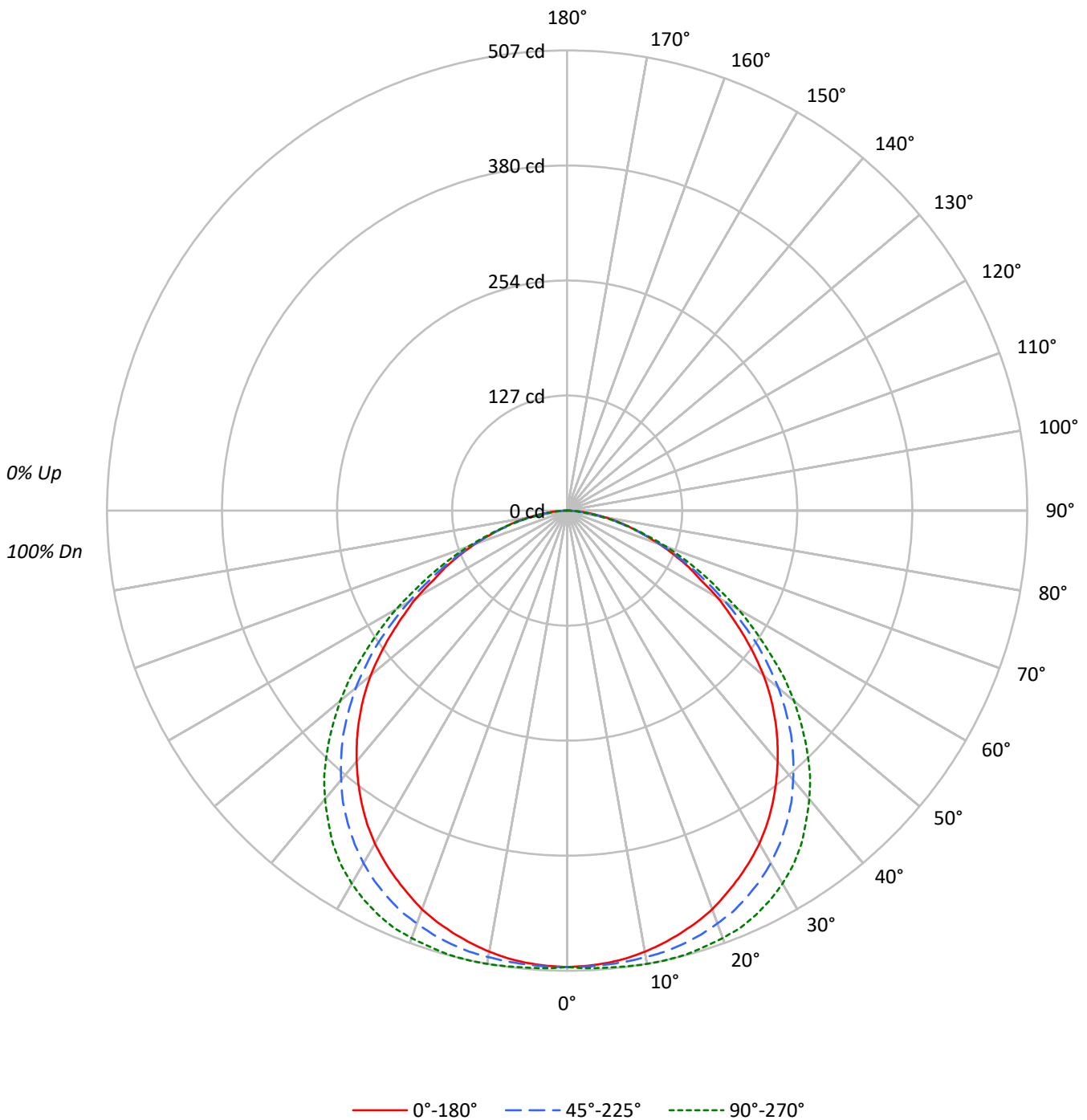
Input Watts (W): 16.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1611	1611	1611
5°	1609	1614	1625
10°	1605	1624	1649
15°	1599	1639	1679
20°	1594	1650	1708
25°	1580	1659	1738
30°	1567	1659	1755
35°	1542	1646	1757
40°	1508	1620	1735
45°	1467	1580	1693
50°	1408	1515	1626
55°	1318	1419	1515
60°	1225	1291	1396
65°	1122	1162	1240
70°	1016	1032	1081
75°	895	874	906
80°	778	716	682
85°	632	474	412



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.9	3.4
10°-20°	139.6	9.9
20°-30°	216.4	15.4
30°-40°	263.3	18.7
40°-50°	268.2	19.0
50°-60°	226.2	16.1
60°-70°	153.0	10.9
70°-80°	76.5	5.4
80°-90°	17.0	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°	403.9	28.7
0°-40°	667.2	47.4
0°-60°	1161.5	82.5
0°-90°	1408.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1408.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	503	503	503	503	503	
5°	500	501	502	505	506	48
15°	482	486	494	503	506	136
25°	447	454	469	485	492	206
35°	394	403	421	441	450	247
45°	324	330	349	367	374	249
55°	236	239	254	266	271	211
65°	148	146	153	160	164	146
75°	72	70	71	72	73	78
85°	17	15	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°	502.9	502.9	502.9	502.9	502.9
2.5°	502.1	502.1	502.9	503.8	504.7
5°	500.4	501.2	502.1	504.7	505.5
7.5°	497.8	498.6	501.2	504.7	506.4
10°	493.5	495.2	499.5	504.7	507.2
12.5°	488.3	490.9	497.8	503.8	507.2
15°	482.3	485.7	494.3	502.9	506.4
17.5°	475.4	479.7	490.0	499.5	503.8
20°	467.6	472.8	484.0	496.1	501.2
22.5°	457.3	464.2	478.0	491.7	497.8
25°	447.0	453.9	469.4	484.9	491.7
27.5°	435.8	443.5	459.9	477.1	484.0
30°	423.7	430.6	448.7	466.8	474.5
32.5°	409.9	416.8	435.8	454.7	463.3
35°	394.4	403.0	421.1	440.9	449.5
37.5°	378.1	385.8	405.6	424.6	432.3
40°	360.8	368.6	387.5	407.3	415.1
42.5°	342.8	350.5	368.6	387.5	396.2
45°	323.8	329.8	348.8	366.9	373.8
47.5°	304.0	308.3	326.4	343.6	350.5
50°	282.5	286.8	304.0	319.5	326.4
52.5°	259.2	262.7	279.0	292.8	300.6
55°	236.0	239.4	254.1	266.1	271.3
57.5°	212.7	214.4	227.4	239.4	244.6
60°	191.2	191.2	201.5	211.0	217.9
62.5°	166.2	168.8	176.5	186.0	188.6
65°	148.1	145.5	153.3	160.2	163.6
67.5°	127.5	125.7	130.9	136.9	138.7
70°	108.5	105.9	110.2	113.7	115.4
72.5°	88.7	87.8	89.6	92.1	93.0
75°	72.3	69.8	70.6	71.5	73.2
77.5°	57.7	53.4	54.3	53.4	54.3
80°	42.2	38.8	38.8	37.9	37.0
82.5°	28.4	26.7	25.0	23.3	22.4
85°	17.2	14.6	12.9	11.2	11.2
87.5°	6.9	5.2	4.3	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)