

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: P229807

Luminaire Tested: **24RLN-LD5-36-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229807
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-36-RDP-UNV-L930-CD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH RDP LENS
Light Source: (252)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2513.0 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

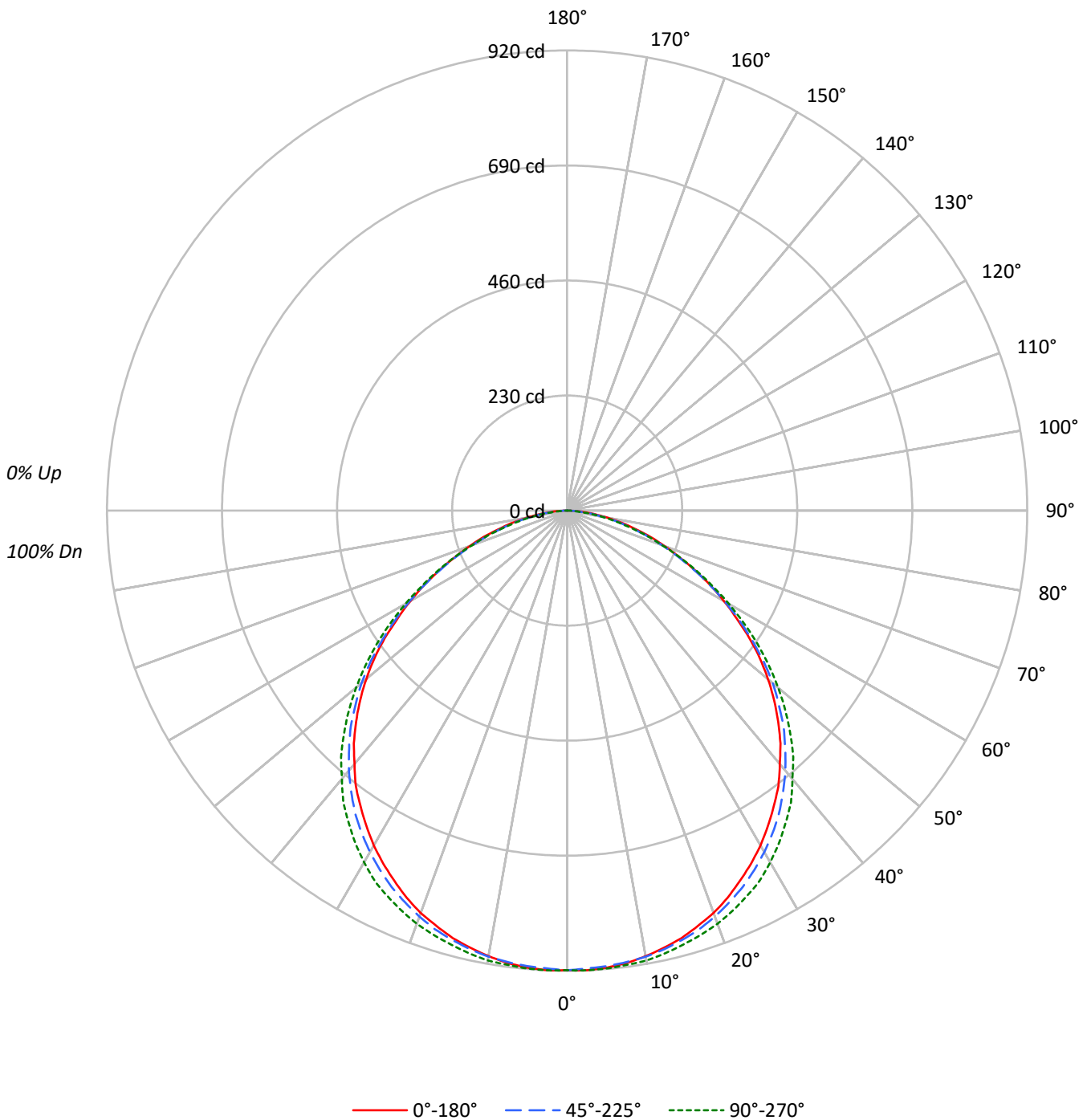
Input Watts (W): 26.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	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	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1408	1408	1408
5°	1410	1406	1413
10°	1407	1409	1420
15°	1403	1409	1424
20°	1395	1408	1433
25°	1381	1403	1437
30°	1367	1394	1436
35°	1348	1381	1424
40°	1323	1357	1401
45°	1293	1326	1367
50°	1249	1279	1313
55°	1189	1204	1240
60°	1110	1116	1145
65°	1019	1012	1037
70°	927	901	905
75°	824	779	773
80°	714	639	622
85°	587	452	351



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	3.5
10°-20°	251.3	10.0
20°-30°	383.5	15.3
30°-40°	462.4	18.4
40°-50°	471.5	18.8
50°-60°	403.5	16.1
60°-70°	278.0	11.1
70°-80°	142.5	5.7
80°-90°	33.2	1.3
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°	721.9	28.7
0°-40°	1184.3	47.1
0°-60°	2059.4	81.9
0°-90°	2513.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2513.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	919	919	919	919	919	
5°	917	915	914	917	919	87
15°	885	884	888	895	898	250
25°	817	820	830	845	850	377
35°	721	724	739	755	762	451
45°	597	598	612	627	631	460
55°	445	442	451	460	464	397
65°	281	275	279	281	286	279
75°	139	134	132	132	131	150
85°	33	30	26	23	20	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	919.0	919.0	919.0	919.0	919.0
2.5°	920.0	918.1	916.2	918.1	920.0
5°	917.1	915.2	914.2	917.1	919.0
7.5°	912.3	910.4	910.4	914.2	916.2
10°	904.7	903.8	905.7	909.5	913.3
12.5°	895.2	895.2	898.0	902.8	906.6
15°	884.7	883.7	888.5	895.2	898.0
17.5°	870.4	871.3	878.0	885.6	889.5
20°	856.1	857.0	863.7	874.2	879.0
22.5°	838.0	839.9	847.5	860.9	865.6
25°	817.0	819.9	830.4	844.7	850.4
27.5°	796.0	798.9	810.3	826.5	834.2
30°	773.2	777.0	788.4	805.6	812.2
32.5°	747.4	750.3	764.6	781.7	788.4
35°	720.7	723.6	738.8	755.0	761.7
37.5°	694.0	694.0	709.3	728.3	735.0
40°	661.6	662.6	678.8	696.9	700.7
42.5°	631.1	631.1	645.4	662.6	669.2
45°	596.8	597.7	612.0	627.3	631.1
47.5°	561.5	561.5	573.9	588.2	592.0
50°	524.3	522.4	536.7	548.2	551.0
52.5°	486.2	483.3	494.8	504.3	508.1
55°	445.2	442.3	450.9	460.5	464.3
57.5°	402.3	398.5	408.0	416.6	418.5
60°	362.3	356.5	364.2	368.9	373.7
62.5°	322.2	315.6	321.3	324.1	327.9
65°	281.2	274.6	279.3	281.2	286.0
67.5°	242.1	237.4	238.3	241.2	243.1
70°	206.9	201.2	201.2	201.2	202.1
72.5°	174.5	165.9	164.9	165.9	165.9
75°	139.2	133.5	131.6	131.6	130.6
77.5°	111.5	103.9	103.0	101.1	99.1
80°	81.0	74.4	72.5	71.5	70.5
82.5°	56.2	50.5	48.6	46.7	43.9
85°	33.4	29.6	25.7	22.9	20.0
87.5°	12.4	11.4	9.5	8.6	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)