

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: P229937

Luminaire Tested: **24RLN-LD5-36-RDP-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1707-178-7)
Test Lab: INNOVATION CENTER-G3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-36-RDP-UNV-L935-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (252)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2575.0 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

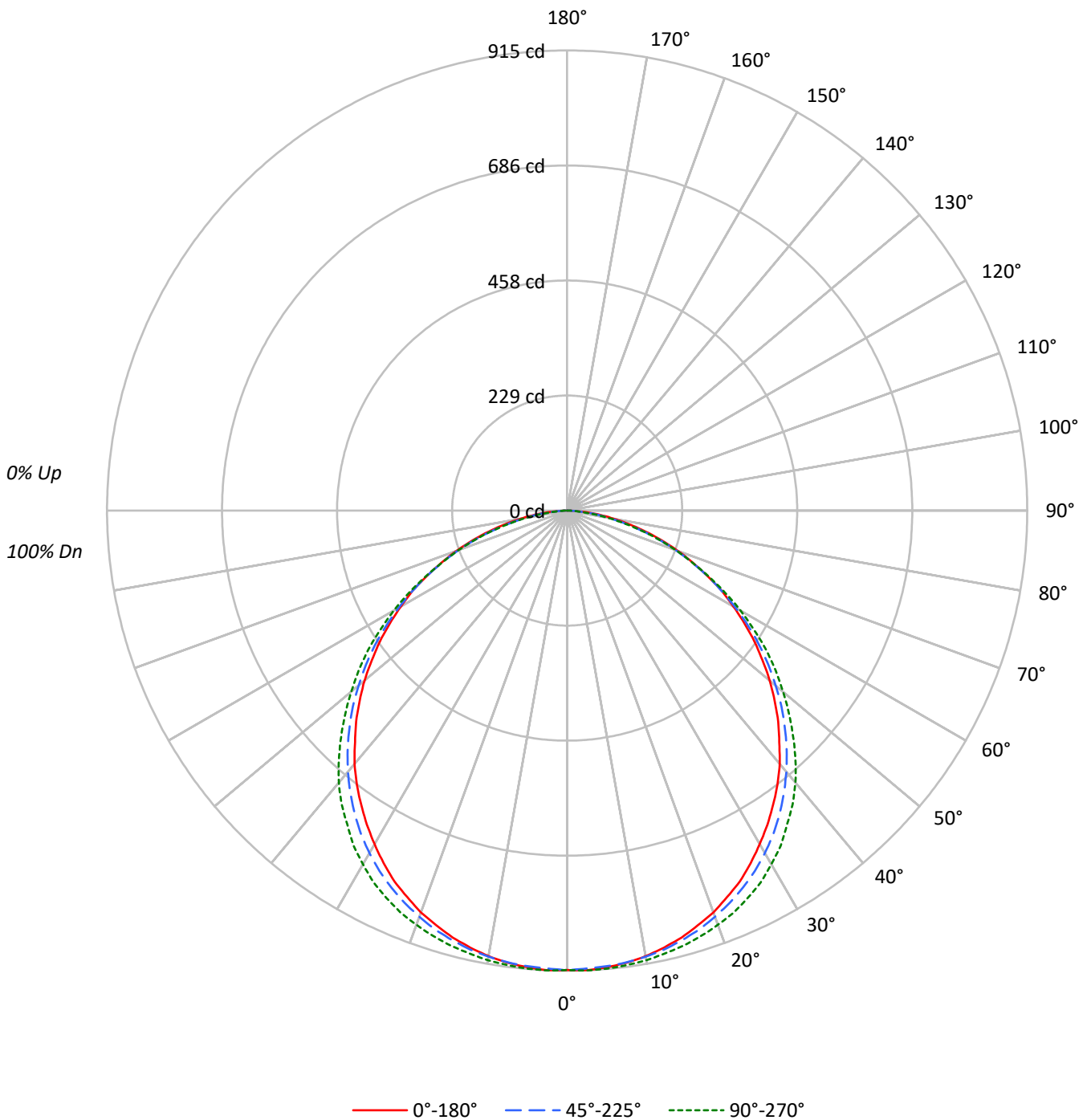
Input Watts (W): 26.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	78	71	65	76	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1399	1399	1399
5°	1401	1398	1406
10°	1399	1401	1412
15°	1394	1402	1420
20°	1386	1401	1429
25°	1374	1398	1436
30°	1355	1391	1436
35°	1335	1377	1425
40°	1315	1356	1412
45°	1286	1327	1377
50°	1254	1289	1335
55°	1216	1246	1290
60°	1169	1184	1220
65°	1115	1115	1126
70°	1048	1029	1026
75°	956	899	896
80°	834	748	715
85°	661	518	406



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	3.4
10°-20°	250.1	9.7
20°-30°	382.1	14.8
30°-40°	460.9	17.9
40°-50°	472.4	18.3
50°-60°	416.2	16.2
60°-70°	304.6	11.8
70°-80°	163.7	6.4
80°-90°	38.1	1.5
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°	718.9	27.9
0°-40°	1179.8	45.8
0°-60°	2068.5	80.3
0°-90°	2575.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2575.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	914	914	914	914	914	
5°	912	910	909	912	914	87
15°	879	880	884	891	895	248
25°	813	815	827	843	850	374
35°	714	718	736	757	762	447
45°	594	593	612	630	636	457
55°	455	452	466	477	483	406
65°	308	302	308	311	311	305
75°	162	154	152	152	151	172
85°	38	33	30	24	23	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	913.7	913.7	913.7	913.7	913.7
2.5°	914.7	913.1	911.5	913.1	915.3
5°	911.5	910.4	909.4	912.0	914.2
7.5°	906.7	905.6	906.1	909.9	911.5
10°	899.7	899.7	900.8	905.1	907.7
12.5°	890.0	890.6	893.8	899.2	901.8
15°	878.8	879.8	884.1	891.1	895.4
17.5°	864.8	867.5	873.4	882.0	886.8
20°	850.3	851.9	859.4	871.8	876.6
22.5°	831.5	834.7	844.4	858.9	865.3
25°	813.3	815.4	827.2	843.3	849.8
27.5°	790.2	793.4	807.9	826.7	833.7
30°	766.0	769.8	786.4	804.7	812.2
32.5°	740.8	745.6	762.8	782.1	790.2
35°	714.0	717.7	736.5	756.9	762.3
37.5°	687.1	688.2	708.1	727.9	736.5
40°	657.6	658.7	678.0	696.8	706.4
42.5°	624.3	627.5	646.3	664.6	672.1
45°	593.7	593.2	612.5	630.2	635.6
47.5°	559.4	560.4	578.1	595.3	598.5
50°	526.1	525.5	541.1	556.1	560.4
52.5°	489.6	489.0	504.6	516.9	522.3
55°	455.2	452.5	466.5	477.2	483.1
57.5°	418.2	414.4	426.8	437.5	440.2
60°	381.7	377.4	386.5	394.6	398.3
62.5°	346.8	341.4	347.3	354.3	354.8
65°	307.6	302.2	307.6	311.4	310.8
67.5°	270.6	264.6	267.3	268.9	268.4
70°	234.0	226.0	229.8	228.7	229.2
72.5°	197.5	191.1	190.6	189.0	190.6
75°	161.6	154.1	151.9	151.9	151.4
77.5°	127.2	119.7	117.6	116.5	114.9
80°	94.5	88.6	84.8	84.3	81.1
82.5°	66.6	59.0	58.0	53.1	49.9
85°	37.6	33.3	29.5	24.2	23.1
87.5°	14.0	12.3	9.7	9.1	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)