

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: P229936

Luminaire Tested: **24RLN-LD5-31-RDP-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229936
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-LD5-31-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: 2242.0 lumens
Efficiency: N/A
Efficacy: 97.9 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

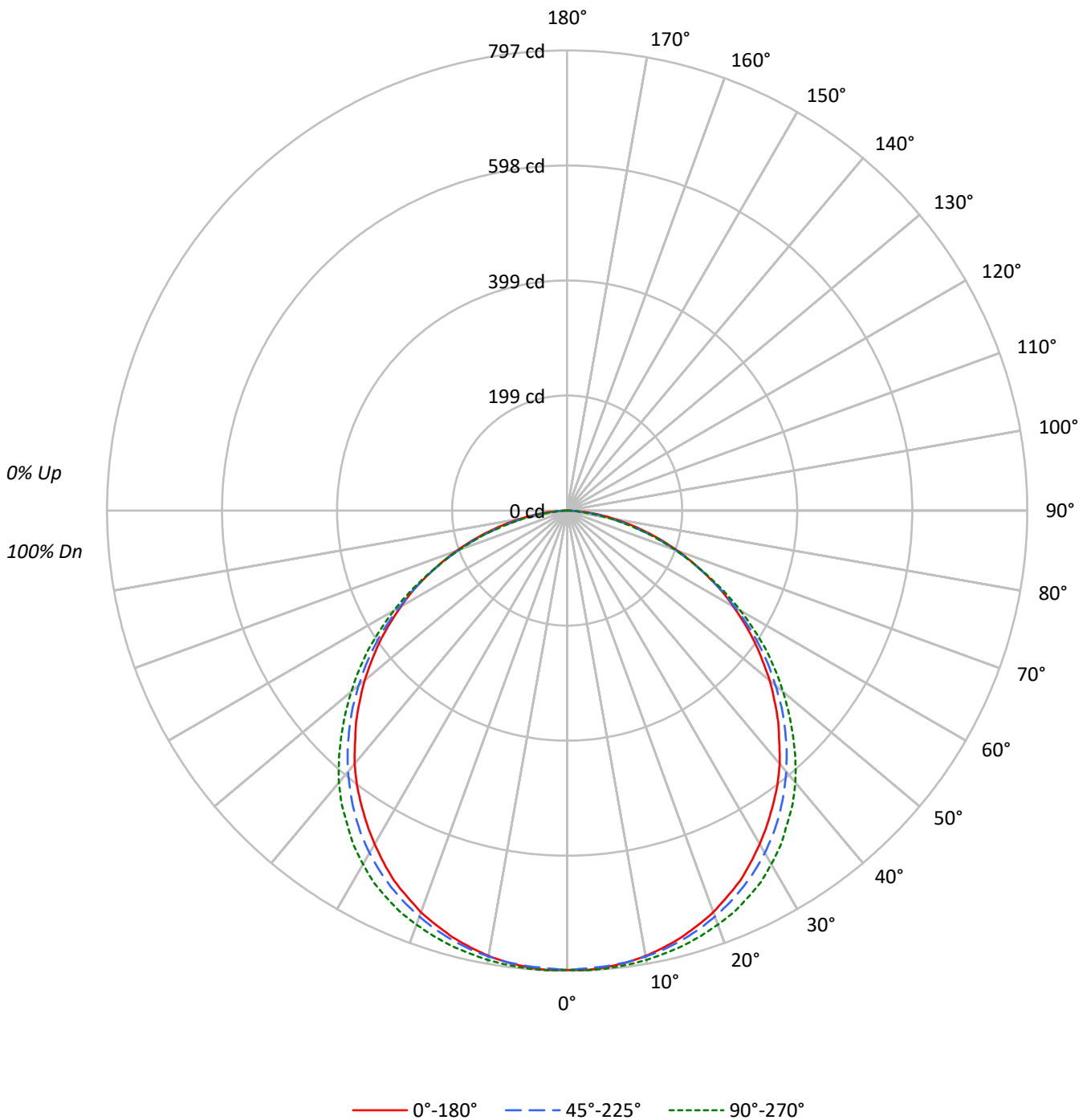
Input Watts (W): 22.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1218	1218	1218
5°	1220	1217	1224
10°	1218	1220	1229
15°	1213	1221	1236
20°	1207	1220	1244
25°	1197	1217	1250
30°	1180	1211	1251
35°	1162	1199	1241
40°	1145	1180	1230
45°	1120	1155	1199
50°	1091	1123	1163
55°	1058	1085	1123
60°	1018	1031	1062
65°	971	971	981
70°	913	896	894
75°	833	783	780
80°	726	651	623
85°	575	452	353



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	3.4
10°-20°	217.7	9.7
20°-30°	332.7	14.8
30°-40°	401.3	17.9
40°-50°	411.4	18.3
50°-60°	362.4	16.2
60°-70°	265.3	11.8
70°-80°	142.6	6.4
80°-90°	33.2	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°	625.9	27.9
0°-40°	1027.2	45.8
0°-60°	1801.0	80.3
0°-90°	2242.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2242.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	796	796	796	796	796	
5°	794	793	792	794	796	75
15°	765	766	770	776	780	216
25°	708	710	720	734	740	326
35°	622	625	641	659	664	389
45°	517	516	533	549	553	398
55°	396	394	406	416	421	354
65°	268	263	268	271	271	266
75°	141	134	132	132	132	149
85°	33	29	26	21	20	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	795.5	795.5	795.5	795.5	795.5
2.5°	796.4	795.0	793.6	795.0	796.9
5°	793.6	792.7	791.8	794.1	796.0
7.5°	789.4	788.5	789.0	792.2	793.6
10°	783.3	783.3	784.3	788.0	790.4
12.5°	774.9	775.4	778.2	782.9	785.2
15°	765.1	766.1	769.8	775.9	779.6
17.5°	753.0	755.3	760.4	767.9	772.1
20°	740.3	741.7	748.3	759.0	763.2
22.5°	724.0	726.8	735.2	747.8	753.4
25°	708.1	710.0	720.2	734.3	739.9
27.5°	688.0	690.8	703.4	719.8	725.9
30°	667.0	670.2	684.7	700.6	707.2
32.5°	645.0	649.2	664.2	681.0	688.0
35°	621.6	624.9	641.3	659.0	663.7
37.5°	598.3	599.2	616.5	633.8	641.3
40°	572.6	573.5	590.3	606.7	615.1
42.5°	543.6	546.4	562.7	578.6	585.2
45°	516.9	516.5	533.3	548.7	553.4
47.5°	487.0	488.0	503.4	518.3	521.1
50°	458.0	457.6	471.1	484.2	488.0
52.5°	426.3	425.8	439.3	450.1	454.8
55°	396.3	394.0	406.2	415.5	420.7
57.5°	364.1	360.8	371.6	380.9	383.3
60°	332.3	328.6	336.5	343.5	346.8
62.5°	301.9	297.3	302.4	308.5	308.9
65°	267.8	263.1	267.8	271.1	270.6
67.5°	235.6	230.4	232.8	234.2	233.7
70°	203.8	196.8	200.0	199.1	199.6
72.5°	172.0	166.4	165.9	164.5	165.9
75°	140.7	134.1	132.3	132.3	131.8
77.5°	110.8	104.2	102.4	101.4	100.0
80°	82.3	77.1	73.8	73.4	70.6
82.5°	58.0	51.4	50.5	46.3	43.5
85°	32.7	29.0	25.7	21.0	20.1
87.5°	12.2	10.7	8.4	7.9	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)