

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: P229896

Luminaire Tested: **24RLN-LD5-31-RDP-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229896
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-L830-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (252)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2500.0 lumens
Efficiency: N/A
Efficacy: 109.2 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

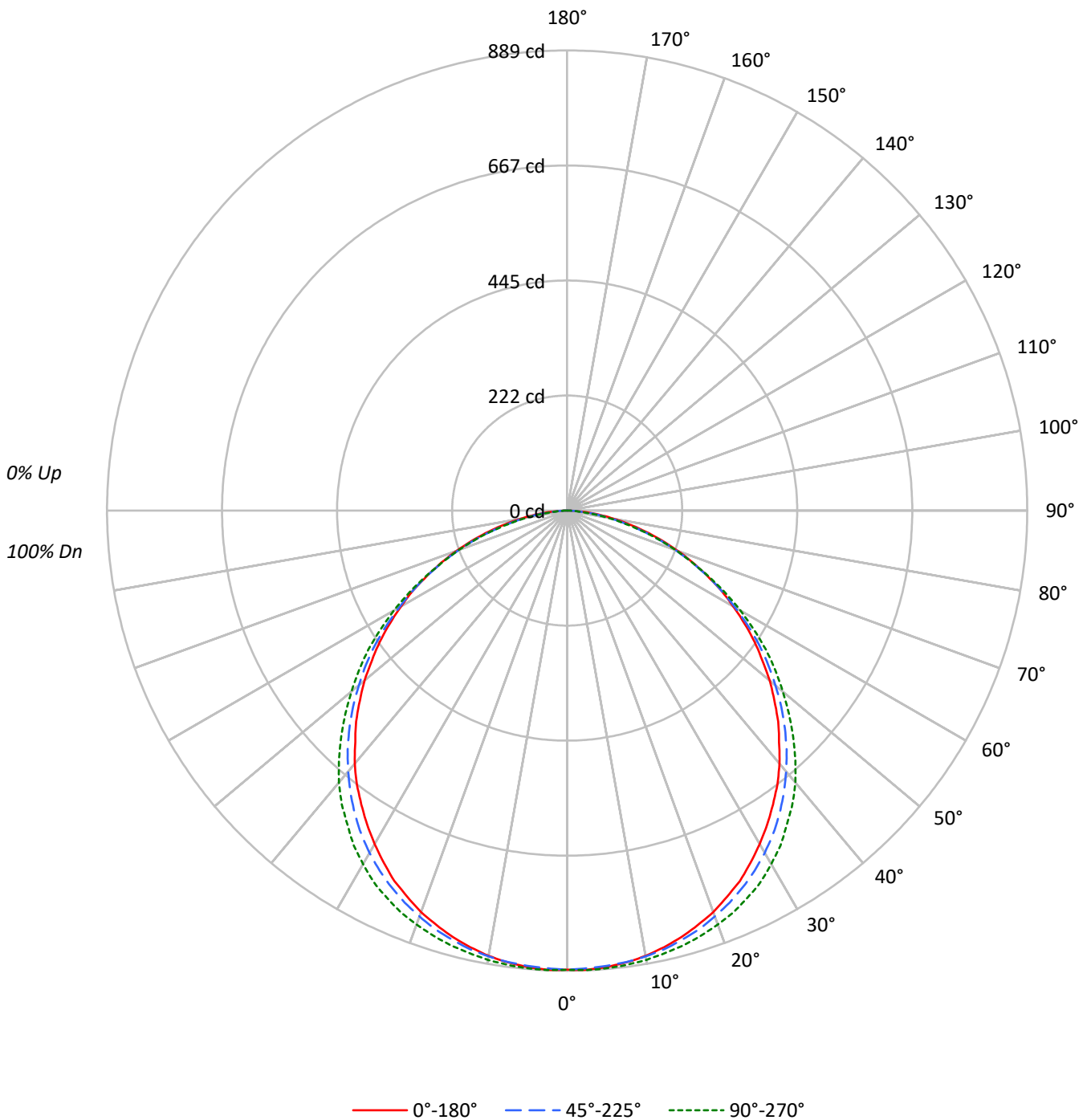
Input Watts (W): 22.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1359	1359	1359
5°	1361	1357	1365
10°	1359	1360	1371
15°	1353	1361	1378
20°	1346	1360	1387
25°	1334	1357	1394
30°	1315	1350	1395
35°	1296	1337	1384
40°	1276	1316	1371
45°	1249	1288	1337
50°	1217	1252	1297
55°	1180	1209	1253
60°	1135	1149	1185
65°	1082	1082	1094
70°	1017	999	996
75°	929	873	870
80°	809	726	694
85°	641	504	394



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	3.4
10°-20°	242.8	9.7
20°-30°	371.0	14.8
30°-40°	447.5	17.9
40°-50°	458.7	18.3
50°-60°	404.1	16.2
60°-70°	295.8	11.8
70°-80°	159.0	6.4
80°-90°	37.0	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°	697.9	27.9
0°-40°	1145.4	45.8
0°-60°	2008.3	80.3
0°-90°	2500.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2500.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	887	887	887	887	887	
5°	885	884	883	886	888	84
15°	853	854	858	865	869	241
25°	790	792	803	819	825	363
35°	693	697	715	735	740	434
45°	576	576	595	612	617	444
55°	442	439	453	463	469	394
65°	299	293	299	302	302	296
75°	157	150	148	148	147	167
85°	36	32	29	24	22	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	887.0	887.0	887.0	887.0	887.0
2.5°	888.1	886.5	885.0	886.5	888.6
5°	885.0	883.9	882.9	885.5	887.6
7.5°	880.3	879.2	879.7	883.4	885.0
10°	873.5	873.5	874.5	878.7	881.3
12.5°	864.1	864.6	867.8	873.0	875.6
15°	853.2	854.2	858.4	865.2	869.3
17.5°	839.6	842.2	848.0	856.3	861.0
20°	825.5	827.1	834.4	846.4	851.1
22.5°	807.3	810.4	819.8	833.9	840.1
25°	789.6	791.7	803.1	818.8	825.0
27.5°	767.2	770.3	784.4	802.6	809.4
30°	743.7	747.4	763.5	781.2	788.5
32.5°	719.2	723.9	740.6	759.4	767.2
35°	693.2	696.8	715.1	734.9	740.1
37.5°	667.1	668.1	687.4	706.7	715.1
40°	638.4	639.5	658.2	676.5	685.9
42.5°	606.1	609.3	627.5	645.2	652.5
45°	576.4	575.9	594.7	611.9	617.1
47.5°	543.1	544.1	561.3	578.0	581.1
50°	510.8	510.2	525.3	539.9	544.1
52.5°	475.3	474.8	489.9	501.9	507.1
55°	442.0	439.4	452.9	463.3	469.1
57.5°	406.0	402.3	414.3	424.8	427.4
60°	370.6	366.4	375.2	383.1	386.7
62.5°	336.7	331.5	337.2	344.0	344.5
65°	298.6	293.4	298.6	302.3	301.8
67.5°	262.7	256.9	259.5	261.1	260.6
70°	227.2	219.4	223.1	222.0	222.5
72.5°	191.8	185.5	185.0	183.5	185.0
75°	156.9	149.6	147.5	147.5	147.0
77.5°	123.5	116.2	114.1	113.1	111.5
80°	91.7	86.0	82.3	81.8	78.7
82.5°	64.6	57.3	56.3	51.6	48.5
85°	36.5	32.3	28.7	23.5	22.4
87.5°	13.6	12.0	9.4	8.9	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)