

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: P229947

Luminaire Tested: **24RLN-LD5-36-RDP-UNV-L940-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229947
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-L940-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (252)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2642.0 lumens
Efficiency: N/A
Efficacy: 99.7 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

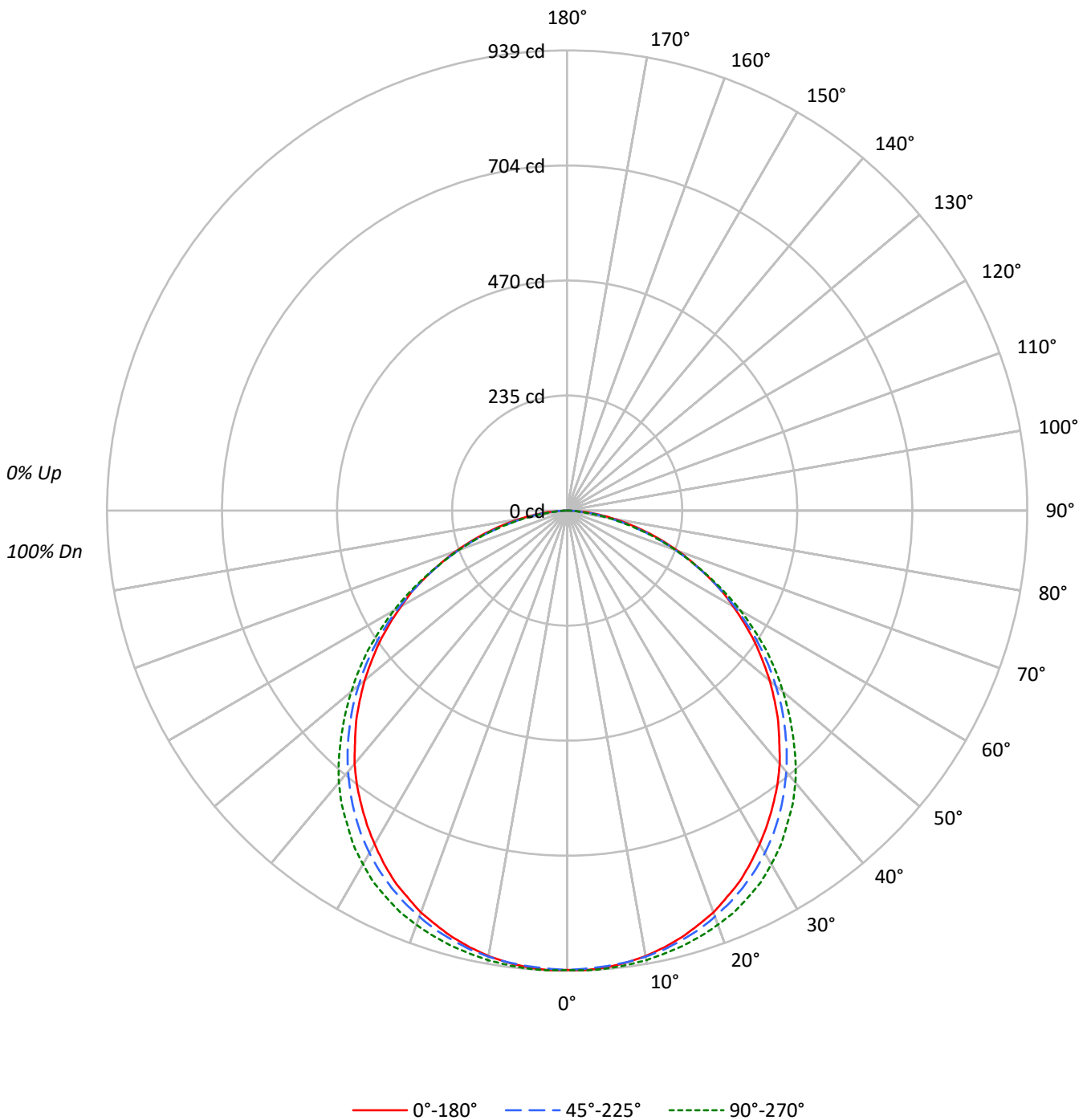
Input Watts (W): 26.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1436	1436	1436
5°	1438	1435	1442
10°	1436	1437	1449
15°	1430	1438	1457
20°	1422	1437	1466
25°	1410	1434	1474
30°	1390	1427	1474
35°	1370	1413	1462
40°	1349	1391	1449
45°	1320	1361	1413
50°	1286	1323	1370
55°	1247	1278	1324
60°	1200	1215	1252
65°	1144	1144	1156
70°	1075	1056	1053
75°	981	923	919
80°	855	767	734
85°	678	532	417



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	3.4
10°-20°	256.6	9.7
20°-30°	392.0	14.8
30°-40°	472.9	17.9
40°-50°	484.7	18.3
50°-60°	427.1	16.2
60°-70°	312.6	11.8
70°-80°	168.0	6.4
80°-90°	39.1	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°	737.6	27.9
0°-40°	1210.5	45.8
0°-60°	2122.3	80.3
0°-90°	2642.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2642.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	937	937	937	937	937	
5°	935	934	933	936	938	89
15°	902	903	907	914	919	254
25°	834	837	849	865	872	384
35°	732	736	756	777	782	458
45°	609	609	628	647	652	469
55°	467	464	479	490	496	417
65°	316	310	316	320	319	313
75°	166	158	156	156	155	176
85°	39	34	30	25	24	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	937.4	937.4	937.4	937.4	937.4
2.5°	938.5	936.9	935.2	936.9	939.1
5°	935.2	934.1	933.0	935.8	938.0
7.5°	930.3	929.2	929.7	933.6	935.2
10°	923.1	923.1	924.2	928.6	931.4
12.5°	913.2	913.7	917.0	922.6	925.3
15°	901.6	902.7	907.1	914.3	918.7
17.5°	887.3	890.1	896.1	904.9	909.9
20°	872.4	874.1	881.8	894.5	899.4
22.5°	853.2	856.5	866.4	881.2	887.9
25°	834.4	836.6	848.7	865.3	871.9
27.5°	810.7	814.1	828.9	848.2	855.4
30°	786.0	789.8	806.9	825.6	833.3
32.5°	760.1	765.0	782.7	802.5	810.7
35°	732.5	736.4	755.7	776.6	782.1
37.5°	705.0	706.1	726.5	746.9	755.7
40°	674.7	675.8	695.6	714.9	724.8
42.5°	640.6	643.9	663.1	681.9	689.6
45°	609.2	608.6	628.4	646.6	652.1
47.5°	573.9	575.0	593.2	610.8	614.1
50°	539.8	539.2	555.2	570.6	575.0
52.5°	502.3	501.8	517.7	530.4	535.9
55°	467.1	464.3	478.6	489.6	495.7
57.5°	429.1	425.2	437.9	448.9	451.6
60°	391.6	387.2	396.6	404.8	408.7
62.5°	355.8	350.3	356.4	363.5	364.1
65°	315.6	310.1	315.6	319.5	318.9
67.5°	277.6	271.5	274.3	275.9	275.4
70°	240.1	231.9	235.7	234.6	235.2
72.5°	202.7	196.1	195.5	193.9	195.5
75°	165.8	158.1	155.9	155.9	155.3
77.5°	130.5	122.8	120.6	119.5	117.9
80°	96.9	90.9	87.0	86.5	83.2
82.5°	68.3	60.6	59.5	54.5	51.2
85°	38.6	34.1	30.3	24.8	23.7
87.5°	14.3	12.7	9.9	9.4	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)