

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: P229713

Luminaire Tested: **22RLN-LD5-35-RDP-UNV-L940-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1707-178-5)
Test Lab: INNOVATION CENTER-G3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-35-RDP-UNV-L940-CD1-SVPD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (126)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2456.0 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.36
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

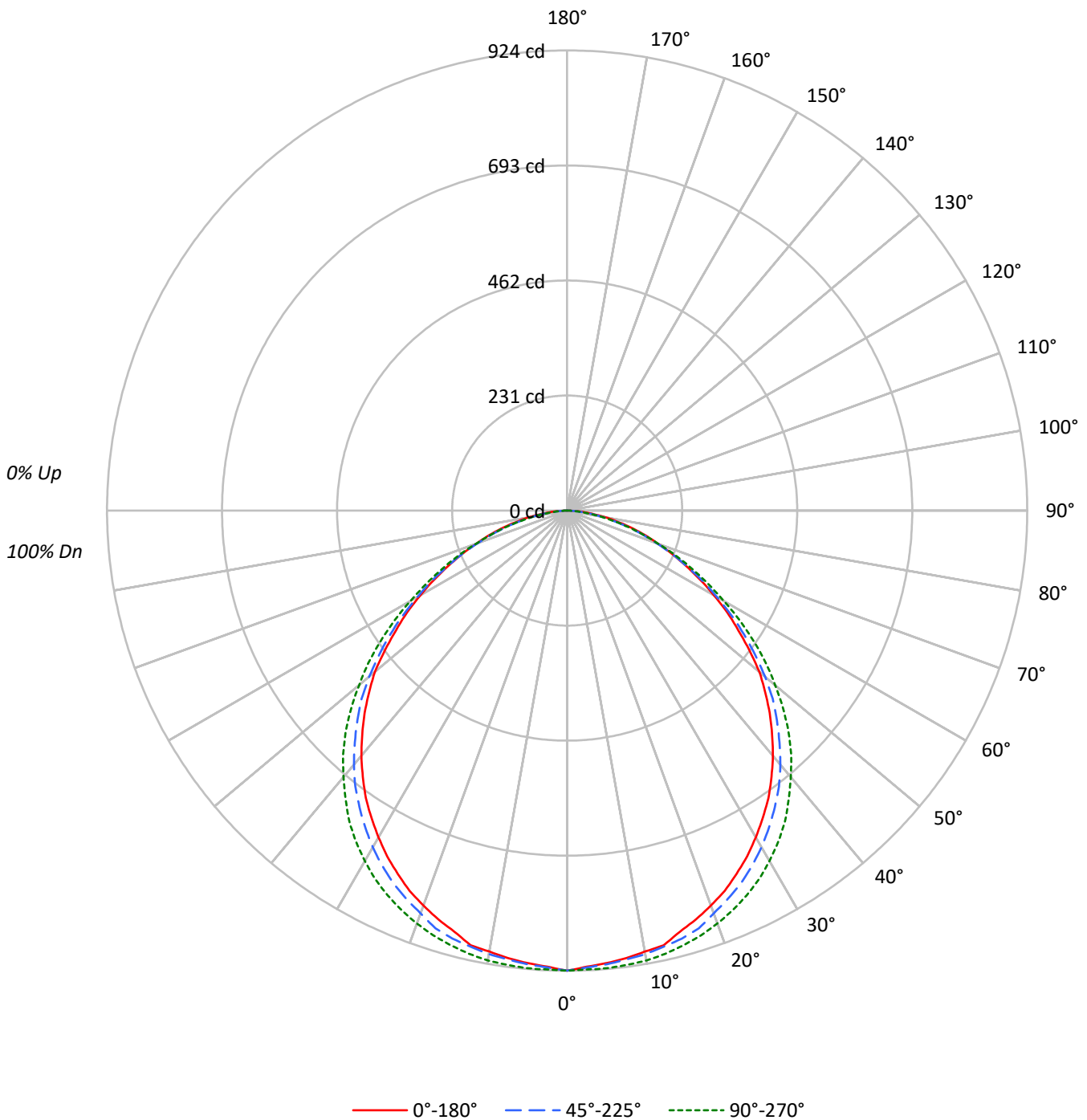
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2959	2959	2959
5°	2933	2940	2965
10°	2924	2940	2983
15°	2902	2950	2996
20°	2876	2933	3007
25°	2844	2918	3013
30°	2801	2887	3005
35°	2754	2842	2982
40°	2687	2784	2921
45°	2605	2697	2848
50°	2511	2584	2717
55°	2344	2421	2554
60°	2182	2224	2331
65°	1998	2014	2097
70°	1809	1782	1830
75°	1653	1537	1554
80°	1474	1260	1219
85°	1176	853	746



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	3.5
10°-20°	250.8	10.2
20°-30°	381.2	15.5
30°-40°	456.3	18.6
40°-50°	460.8	18.8
50°-60°	388.7	15.8
60°-70°	265.4	10.8
70°-80°	134.6	5.5
80°-90°	31.0	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°	719.2	29.3
0°-40°	1175.5	47.9
0°-60°	2025.0	82.4
0°-90°	2456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2456.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	924	924	924	924	924	
5°	912	912	914	919	922	87
15°	875	879	890	896	904	247
25°	805	812	826	843	853	371
35°	704	710	727	750	763	440
45°	575	578	596	619	629	443
55°	420	419	434	450	458	376
65°	264	260	266	271	277	262
75°	134	126	124	124	126	142
85°	32	28	23	21	20	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	923.8	923.8	923.8	923.8	923.8
2.5°	916.6	916.6	918.0	923.1	922.4
5°	912.2	912.2	914.4	918.7	922.4
7.5°	906.4	907.1	909.3	915.8	920.2
10°	899.1	899.8	904.2	910.7	917.3
12.5°	894.0	894.8	896.9	904.9	911.5
15°	875.2	878.8	889.7	896.2	903.5
17.5°	860.6	865.0	879.5	885.3	894.0
20°	843.9	849.0	860.6	873.7	882.4
22.5°	826.5	832.3	843.9	859.2	868.6
25°	804.7	812.0	825.8	843.2	852.6
27.5°	782.9	790.2	804.0	827.9	834.5
30°	757.5	765.5	780.7	804.0	812.7
32.5°	731.4	738.6	754.6	778.6	788.7
35°	704.5	710.3	727.0	749.5	762.6
37.5°	674.0	679.8	698.7	720.5	730.6
40°	642.7	647.1	666.0	687.8	698.7
42.5°	609.3	613.7	631.1	653.6	666.0
45°	575.2	578.1	595.5	618.8	628.9
47.5°	538.9	541.8	560.0	578.8	588.3
50°	504.0	502.6	518.6	536.0	545.4
52.5°	461.2	461.9	475.7	492.4	503.3
55°	419.8	419.1	433.6	449.6	457.5
57.5°	381.3	378.4	390.7	401.6	411.1
60°	340.6	337.7	347.2	358.8	363.9
62.5°	301.4	297.8	307.2	313.7	318.8
65°	263.6	260.0	265.8	270.9	276.7
67.5°	228.0	223.7	228.8	231.7	236.0
70°	193.2	189.6	190.3	193.9	195.4
72.5°	163.4	156.1	156.9	156.9	159.1
75°	133.6	125.6	124.2	123.5	125.6
77.5°	103.9	97.3	95.1	94.4	94.4
80°	79.9	71.2	68.3	66.1	66.1
82.5°	52.3	49.4	44.3	41.4	39.9
85°	32.0	27.6	23.2	21.1	20.3
87.5°	12.3	10.2	8.7	8.7	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)