

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: P229593

Luminaire Tested: **22RLN-LD5-35-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229593
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36050)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-35-UNV-L930-CD1-U
Description: METALUX 2X2 RLN LED TROFFER
Light Source: (126)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

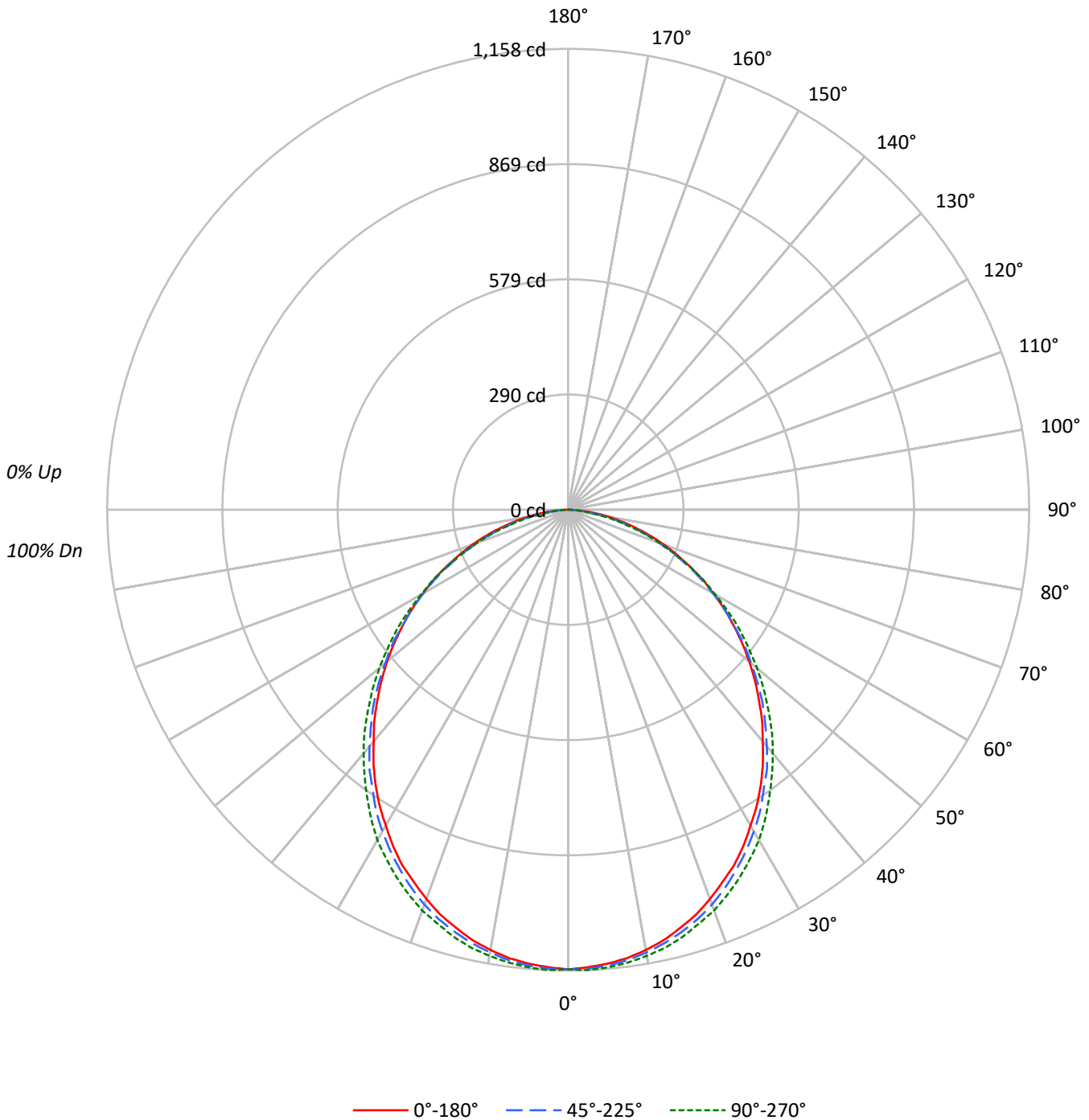
Lumens per Lamp: N/A
Luminaire Lumens: 2953.0 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 30.57
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	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	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	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3699	3699	3699
5°	3680	3695	3711
10°	3653	3674	3702
15°	3606	3644	3684
20°	3548	3599	3653
25°	3483	3529	3602
30°	3389	3451	3545
35°	3297	3349	3444
40°	3178	3244	3342
45°	3069	3129	3218
50°	2957	2989	3083
55°	2833	2838	2938
60°	2698	2686	2728
65°	2554	2497	2533
70°	2393	2270	2279
75°	2165	1992	1934
80°	1916	1675	1553
85°	1547	1169	996



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	3.7
10°-20°	309.9	10.5
20°-30°	460.6	15.6
30°-40°	537.7	18.2
40°-50°	533.7	18.1
50°-60°	458.0	15.5
60°-70°	328.8	11.1
70°-80°	174.2	5.9
80°-90°	40.8	1.4
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°	879.7	29.8
0°-40°	1417.5	48.0
0°-60°	2409.2	81.6
0°-90°	2953.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2953.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1155	1155	1155	1155	1155	
5°	1145	1147	1150	1153	1154	109
15°	1088	1092	1099	1107	1111	307
25°	986	988	999	1014	1019	453
35°	843	846	856	875	881	527
45°	678	680	691	703	710	523
55°	507	505	508	520	526	454
65°	337	329	330	332	334	334
75°	175	167	161	159	156	186
85°	42	36	32	27	27	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1155.1	1155.1	1155.1	1155.1	1155.1
2.5°	1150.5	1151.4	1154.2	1157.0	1157.9
5°	1144.8	1146.7	1149.5	1153.3	1154.2
7.5°	1136.4	1138.3	1142.0	1145.8	1147.6
10°	1123.3	1126.1	1129.9	1136.4	1138.3
12.5°	1108.3	1110.2	1115.8	1123.3	1127.1
15°	1087.7	1091.5	1099.0	1107.4	1111.1
17.5°	1067.1	1069.9	1079.3	1087.7	1090.5
20°	1040.9	1046.5	1055.9	1066.2	1071.8
22.5°	1012.8	1017.5	1028.8	1040.9	1046.5
25°	985.7	988.5	998.8	1013.8	1019.4
27.5°	952.9	955.7	967.0	982.0	989.4
30°	916.4	921.1	933.3	950.1	958.6
32.5°	881.8	885.5	897.7	912.7	921.1
35°	843.4	846.2	856.5	875.2	880.9
37.5°	803.2	806.0	820.0	834.1	840.6
40°	760.1	763.8	776.0	790.1	799.4
42.5°	720.8	722.7	733.0	748.9	757.3
45°	677.7	680.5	690.8	703.0	710.5
47.5°	636.5	635.6	645.9	659.9	665.6
50°	593.5	591.6	600.0	614.1	618.8
52.5°	550.4	547.6	557.0	567.3	571.0
55°	507.4	504.6	508.3	519.5	526.1
57.5°	465.2	460.6	465.2	470.9	476.5
60°	421.2	413.8	419.4	425.9	425.9
62.5°	381.0	372.6	375.4	380.1	382.9
65°	337.0	328.6	329.5	332.3	334.2
67.5°	295.8	287.4	285.5	286.4	287.4
70°	255.6	246.2	242.4	240.6	243.4
72.5°	214.4	205.0	203.1	199.4	200.3
75°	175.0	166.6	161.0	159.1	156.3
77.5°	137.6	130.1	125.4	119.8	118.9
80°	103.9	94.5	90.8	87.1	84.2
82.5°	73.0	64.6	58.0	54.3	51.5
85°	42.1	36.5	31.8	27.1	27.1
87.5°	16.8	13.1	11.2	10.3	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)