

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: P229671

Luminaire Tested: **22RLN-LD5-35-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229671  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36063)  
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-L935-CD1-SVPD1-U  
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR  
Light Source: (126)3500K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2951.0 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.21 / 1.29  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

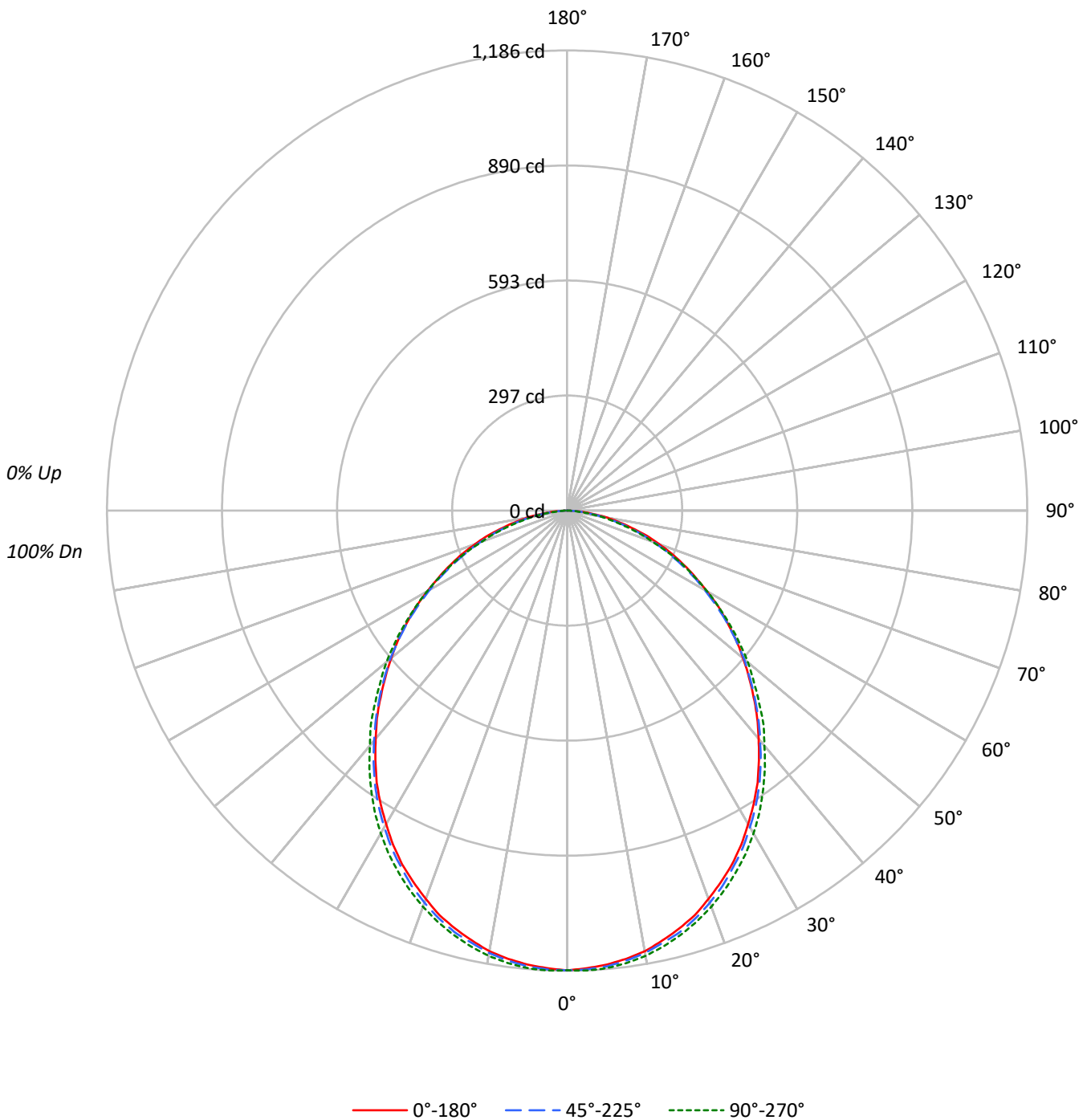
Input Watts (W): 30.57  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	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	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	72	58	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3795	3795	3795
5°	3776	3790	3805
10°	3750	3765	3790
15°	3698	3728	3753
20°	3630	3666	3703
25°	3555	3581	3635
30°	3451	3484	3552
35°	3345	3375	3440
40°	3210	3235	3305
45°	3078	3099	3168
50°	2948	2964	3031
55°	2812	2804	2855
60°	2663	2624	2672
65°	2518	2426	2483
70°	2359	2230	2188
75°	2141	1971	1896
80°	1931	1678	1568
85°	1507	1172	1003



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.9	3.8
10°-20°	316.6	10.7
20°-30°	467.5	15.8
30°-40°	540.6	18.3
40°-50°	530.2	18.0
50°-60°	450.9	15.3
60°-70°	321.2	10.9
70°-80°	171.4	5.8
80°-90°	40.7	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°	895.9	30.4
0°-40°	1436.5	48.7
0°-60°	2417.7	81.9
0°-90°	2951.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2951.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1185	1185	1185	1185	1185	
5°	1174	1176	1179	1182	1184	111
15°	1115	1117	1124	1130	1132	314
25°	1006	1008	1014	1024	1029	463
35°	856	853	863	877	880	534
45°	680	678	684	696	700	525
55°	504	499	502	508	511	451
65°	332	322	320	322	328	330
75°	173	164	159	156	153	185
85°	41	36	32	27	27	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1185.0	1185.0	1185.0	<i>1185.0</i>	1185.0
2.5°	<i>1180.4</i>	<i>1181.9</i>	<i>1183.5</i>	<i>1186.5</i>	<i>1186.5</i>
5°	1174.4	1175.9	1178.9	<i>1181.9</i>	1183.5
7.5°	1165.3	1165.3	1169.8	<i>1172.8</i>	1175.9
10°	1153.1	1154.6	1157.7	<i>1162.2</i>	1165.3
12.5°	1134.9	1137.9	1141.0	<i>1147.1</i>	1150.1
15°	1115.2	1116.7	1124.3	<i>1130.4</i>	1131.9
17.5°	1093.9	1093.9	1101.5	<i>1107.6</i>	1110.6
20°	1065.1	1068.2	1075.7	<i>1083.3</i>	1086.4
22.5°	1036.3	1039.3	1046.9	<i>1054.5</i>	1059.0
25°	1005.9	1007.5	1013.5	<i>1024.2</i>	1028.7
27.5°	971.0	974.1	980.2	<i>990.8</i>	996.8
30°	933.1	936.2	942.2	<i>954.4</i>	960.4
32.5°	895.2	898.2	904.3	<i>916.4</i>	922.5
35°	855.7	852.7	863.3	<i>877.0</i>	880.0
37.5°	811.7	813.3	819.3	<i>831.5</i>	837.5
40°	767.7	767.7	773.8	<i>787.5</i>	790.5
42.5°	725.3	723.7	729.8	<i>741.9</i>	749.5
45°	679.7	678.2	684.3	<i>696.4</i>	699.5
47.5°	635.7	632.7	638.8	<i>649.4</i>	652.4
50°	591.7	588.7	594.8	<i>603.9</i>	608.4
52.5°	549.2	543.2	547.7	<i>555.3</i>	559.9
55°	503.7	499.2	502.2	<i>508.3</i>	511.3
57.5°	462.8	453.7	455.2	<i>461.2</i>	464.3
60°	415.7	408.1	409.7	<i>415.7</i>	417.2
62.5°	373.2	365.7	365.7	<i>367.2</i>	370.2
65°	332.3	321.7	320.1	<i>321.7</i>	327.7
67.5°	292.8	282.2	279.2	<i>279.2</i>	280.7
70°	251.9	241.2	238.2	<i>236.7</i>	233.7
72.5°	213.9	200.3	198.8	<i>194.2</i>	195.7
75°	173.0	163.9	159.3	<i>156.3</i>	153.2
77.5°	136.6	129.0	122.9	<i>118.3</i>	118.3
80°	104.7	94.1	91.0	<i>85.0</i>	85.0
82.5°	69.8	65.2	59.2	<i>54.6</i>	53.1
85°	41.0	36.4	31.9	<i>27.3</i>	27.3
87.5°	15.2	12.1	10.6	<i>10.6</i>	10.6
90°	0.0	0.0	0.0	<i>0.0</i>	0.0

(END OF REPORT)