

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: P229639

Luminaire Tested: **22RLN-LD5-25-RDP-UNV-L940-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229639  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22RLN-LD5-25-RDP-UNV-L940-CD1-U  
Description: METALUX 2X2 RLN LED TROFFER WITH RDP LENS  
Light Source: (126)4000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1822.0 lumens  
Efficiency: N/A  
Efficacy: 87.2 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

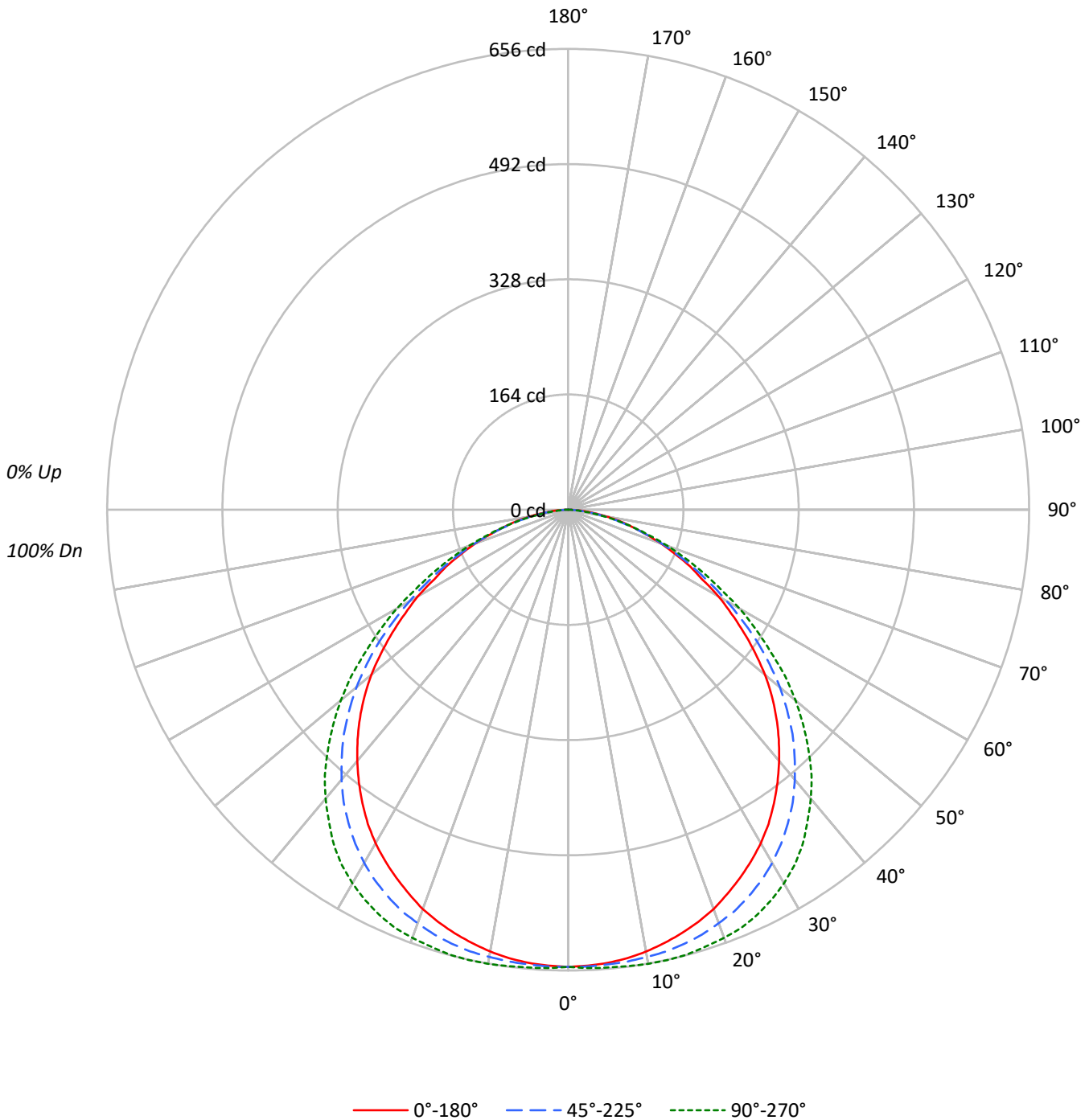
Input Watts (W): 20.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	86	81	77	83	79	75	80	77	74	72
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	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	2084	2084	2084
5°	2082	2089	2103
10°	2077	2102	2135
15°	2069	2121	2173
20°	2062	2135	2211
25°	2044	2146	2248
30°	2028	2147	2271
35°	1995	2131	2274
40°	1952	2097	2246
45°	1898	2044	2191
50°	1821	1960	2105
55°	1705	1836	1960
60°	1585	1670	1806
65°	1453	1503	1604
70°	1315	1335	1398
75°	1158	1131	1172
80°	1007	924	883
85°	819	614	533



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.0	3.4
10°-20°	180.7	9.9
20°-30°	280.0	15.4
30°-40°	340.7	18.7
40°-50°	347.0	19.0
50°-60°	292.7	16.1
60°-70°	198.0	10.9
70°-80°	98.9	5.4
80°-90°	22.0	1.2
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°	522.7	28.7
0°-40°	863.4	47.4
0°-60°	1503.1	82.5
0°-90°	1822.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1822.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	651	651	651	651	651	
5°	648	649	650	653	654	62
15°	624	628	640	651	655	176
25°	578	587	607	627	636	267
35°	510	522	545	571	582	319
45°	419	427	451	475	484	323
55°	305	310	329	344	351	273
65°	192	188	198	207	212	189
75°	94	90	91	92	95	100
85°	22	19	17	14	14	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	650.8	650.8	650.8	650.8	650.8
2.5°	649.7	649.7	650.8	651.9	653.1
5°	647.5	648.6	649.7	653.1	654.2
7.5°	644.1	645.3	648.6	653.1	655.3
10°	638.6	640.8	646.4	653.1	656.4
12.5°	631.9	635.2	644.1	651.9	656.4
15°	624.1	628.5	639.7	650.8	655.3
17.5°	615.2	620.7	634.1	646.4	651.9
20°	605.1	611.8	626.3	641.9	648.6
22.5°	591.8	600.7	618.5	636.3	644.1
25°	578.4	587.3	607.4	627.4	636.3
27.5°	563.9	573.9	595.1	617.4	626.3
30°	548.3	557.2	580.6	604.0	614.0
32.5°	530.5	539.4	563.9	588.4	599.6
35°	510.4	521.6	545.0	570.6	581.7
37.5°	489.2	499.3	524.9	549.4	559.4
40°	466.9	477.0	501.5	527.1	537.2
42.5°	443.5	453.6	477.0	501.5	512.6
45°	419.0	426.8	451.3	474.7	483.7
47.5°	393.4	399.0	422.4	444.7	453.6
50°	365.5	371.1	393.4	413.5	422.4
52.5°	335.4	339.9	361.1	378.9	388.9
55°	305.4	309.8	328.8	344.4	351.0
57.5°	275.3	277.5	294.2	309.8	316.5
60°	247.4	247.4	260.8	273.0	281.9
62.5°	215.1	218.4	228.5	240.7	244.1
65°	191.7	188.3	198.4	207.3	211.7
67.5°	164.9	162.7	169.4	177.2	179.4
70°	140.4	137.1	142.6	147.1	149.3
72.5°	114.8	113.7	115.9	119.2	120.4
75°	93.6	90.3	91.4	92.5	94.7
77.5°	74.7	69.1	70.2	69.1	70.2
80°	54.6	50.1	50.1	49.0	47.9
82.5°	36.8	34.5	32.3	30.1	29.0
85°	22.3	18.9	16.7	14.5	14.5
87.5°	8.9	6.7	5.6	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)