

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: P229711

Luminaire Tested: **22RLN-LD5-25-RDP-UNV-L940-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229711  
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-LD5-25-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: 1755.0 lumens  
Efficiency: N/A  
Efficacy: 84.0 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

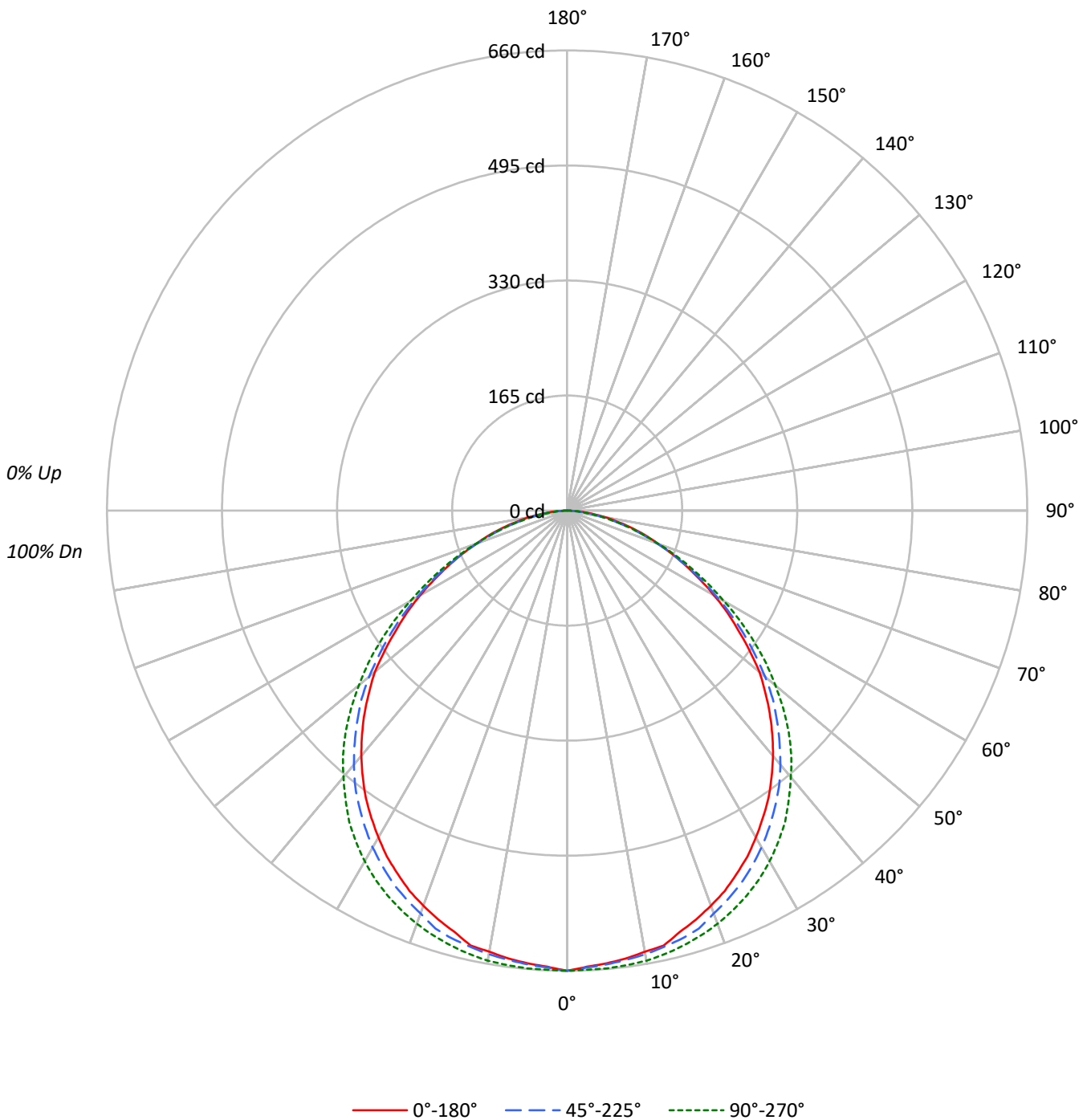
Input Watts (W): 20.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2114	2114	2114
5°	2095	2101	2119
10°	2089	2101	2132
15°	2074	2108	2141
20°	2055	2096	2149
25°	2032	2085	2153
30°	2002	2063	2147
35°	1968	2031	2130
40°	1920	1990	2087
45°	1861	1928	2035
50°	1795	1846	1942
55°	1675	1730	1826
60°	1559	1589	1665
65°	1428	1439	1498
70°	1292	1273	1307
75°	1182	1098	1111
80°	1053	900	871
85°	838	610	533



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.2	3.5
10°-20°	179.2	10.2
20°-30°	272.4	15.5
30°-40°	326.0	18.6
40°-50°	329.3	18.8
50°-60°	277.8	15.8
60°-70°	189.7	10.8
70°-80°	96.2	5.5
80°-90°	22.2	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°	513.9	29.3
0°-40°	839.9	47.9
0°-60°	1447.0	82.4
0°-90°	1755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1755.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	660	660	660	660	660	
5°	652	652	653	656	659	62
15°	625	628	636	640	646	177
25°	575	580	590	602	609	265
35°	503	508	520	536	545	314
45°	411	413	426	442	449	317
55°	300	299	310	321	327	269
65°	188	186	190	194	198	187
75°	96	90	89	88	90	101
85°	23	20	17	15	14	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	660.1	660.1	660.1	660.1	660.1
2.5°	654.9	654.9	656.0	659.6	659.1
5°	651.8	651.8	653.4	656.5	659.1
7.5°	647.7	648.2	649.8	654.4	657.5
10°	642.5	643.0	646.1	650.8	655.5
12.5°	638.9	639.4	640.9	646.6	651.3
15°	625.4	628.0	635.7	640.4	645.6
17.5°	615.0	618.1	628.5	632.6	638.9
20°	603.0	606.7	615.0	624.3	630.6
22.5°	590.6	594.7	603.0	613.9	620.7
25°	575.0	580.2	590.1	602.5	609.3
27.5°	559.5	564.6	574.5	591.6	596.3
30°	541.3	547.0	557.9	574.5	580.7
32.5°	522.6	527.8	539.2	556.3	563.6
35°	503.4	507.6	519.5	535.6	544.9
37.5°	481.6	485.8	499.3	514.8	522.1
40°	459.3	462.4	475.9	491.5	499.3
42.5°	435.4	438.5	451.0	467.1	475.9
45°	411.0	413.1	425.6	442.2	449.4
47.5°	385.1	387.2	400.1	413.6	420.4
50°	360.2	359.1	370.5	383.0	389.8
52.5°	329.5	330.1	339.9	351.9	359.6
55°	300.0	299.4	309.8	321.2	327.0
57.5°	272.5	270.4	279.2	287.0	293.7
60°	243.4	241.3	248.1	256.4	260.0
62.5°	215.4	212.8	219.5	224.2	227.8
65°	188.4	185.8	189.9	193.6	197.7
67.5°	163.0	159.8	163.5	165.6	168.7
70°	138.0	135.5	136.0	138.6	139.6
72.5°	116.8	111.6	112.1	112.1	113.7
75°	95.5	89.8	88.7	88.2	89.8
77.5°	74.2	69.5	68.0	67.5	67.5
80°	57.1	50.9	48.8	47.2	47.2
82.5°	37.4	35.3	31.7	29.6	28.5
85°	22.8	19.7	16.6	15.1	14.5
87.5°	8.8	7.3	6.2	6.2	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)