

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: P229663

Luminaire Tested: **22RLN-LD5-25-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229663  
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-LD5-25-UNV-L930-CD1-SVPD1-U  
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR  
Light Source: (126)3000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2033.0 lumens  
Efficiency: N/A  
Efficacy: 97.3 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

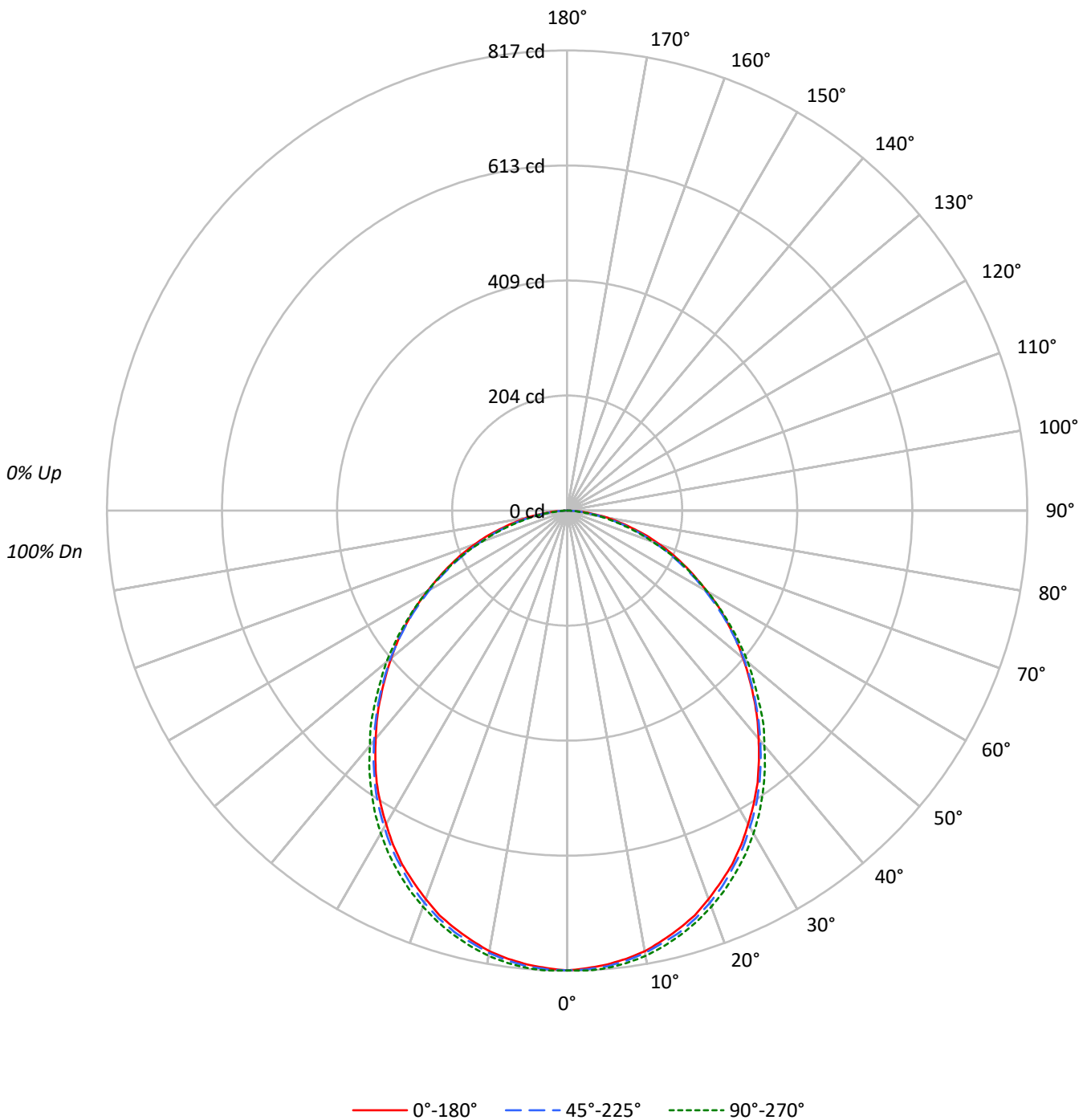
Input Watts (W): 20.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52					52			
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46					46			
6	72	58	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40					40			
7	66	53	45	39	65	52	44	38	51	44	38	49	43	38	48	42	38	36					36			
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	57	44	36	31	43	36	31	42	35	31	41	35	31	29					29			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26					26			

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

	0°	45°	90°
0°	2615	2615	2615
5°	2601	2611	2621
10°	2583	2593	2611
15°	2547	2568	2585
20°	2501	2526	2551
25°	2449	2467	2504
30°	2377	2400	2447
35°	2305	2325	2370
40°	2211	2229	2277
45°	2121	2135	2183
50°	2031	2041	2089
55°	1937	1932	1967
60°	1834	1808	1841
65°	1735	1672	1711
70°	1625	1537	1508
75°	1475	1359	1307
80°	1330	1156	1079
85°	1036	808	691



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.1	3.8
10°-20°	218.1	10.7
20°-30°	322.1	15.8
30°-40°	372.4	18.3
40°-50°	365.3	18.0
50°-60°	310.7	15.3
60°-70°	221.3	10.9
70°-80°	118.0	5.8
80°-90°	28.0	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°	617.2	30.4
0°-40°	989.7	48.7
0°-60°	1665.6	81.9
0°-90°	2033.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2033.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	816	816	816	816	816	
5°	809	810	812	814	815	77
15°	768	769	774	779	780	217
25°	693	694	698	706	709	319
35°	590	587	595	604	606	368
45°	468	467	471	480	482	362
55°	347	344	346	350	352	311
65°	229	222	221	222	226	227
75°	119	113	110	108	106	127
85°	28	25	22	19	19	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	816.4	816.4	816.4	816.4	816.4
2.5°	813.2	814.3	815.3	817.4	817.4
5°	809.0	810.1	812.2	814.3	815.3
7.5°	802.8	802.8	805.9	808.0	810.1
10°	794.4	795.5	797.5	800.7	802.8
12.5°	781.9	784.0	786.0	790.2	792.3
15°	768.3	769.3	774.5	778.7	779.8
17.5°	753.6	753.6	758.9	763.0	765.1
20°	733.8	735.9	741.1	746.3	748.4
22.5°	713.9	716.0	721.2	726.5	729.6
25°	693.0	694.1	698.2	705.6	708.7
27.5°	669.0	671.1	675.2	682.6	686.7
30°	642.8	644.9	649.1	657.5	661.7
32.5°	616.7	618.8	623.0	631.3	635.5
35°	589.5	587.4	594.8	604.2	606.3
37.5°	559.2	560.3	564.4	572.8	577.0
40°	528.9	528.9	533.1	542.5	544.6
42.5°	499.6	498.6	502.8	511.1	516.4
45°	468.3	467.2	471.4	479.8	481.9
47.5°	438.0	435.9	440.1	447.4	449.5
50°	407.7	405.6	409.7	416.0	419.2
52.5°	378.4	374.2	377.3	382.6	385.7
55°	347.0	343.9	346.0	350.2	352.3
57.5°	318.8	312.5	313.6	317.8	319.9
60°	286.4	281.2	282.2	286.4	287.4
62.5°	257.1	251.9	251.9	253.0	255.0
65°	228.9	221.6	220.6	221.6	225.8
67.5°	201.7	194.4	192.3	192.3	193.4
70°	173.5	166.2	164.1	163.1	161.0
72.5°	147.4	138.0	136.9	133.8	134.8
75°	119.2	112.9	109.8	107.7	105.6
77.5°	94.1	88.8	84.7	81.5	81.5
80°	72.1	64.8	62.7	58.5	58.5
82.5°	48.1	44.9	40.8	37.6	36.6
85°	28.2	25.1	22.0	18.8	18.8
87.5°	10.5	8.4	7.3	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)