

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: P229614

Luminaire Tested: **22RLN-LD5-20-RDP-UNV-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229614  
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-LD5-20-RDP-UNV-L835-CD1-U  
Description: METALUX 2X2 RLN LED TROFFER WITH RDP LENS  
Light Source: (126)3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1634.9 lumens  
Efficiency: N/A  
Efficacy: 99.7 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

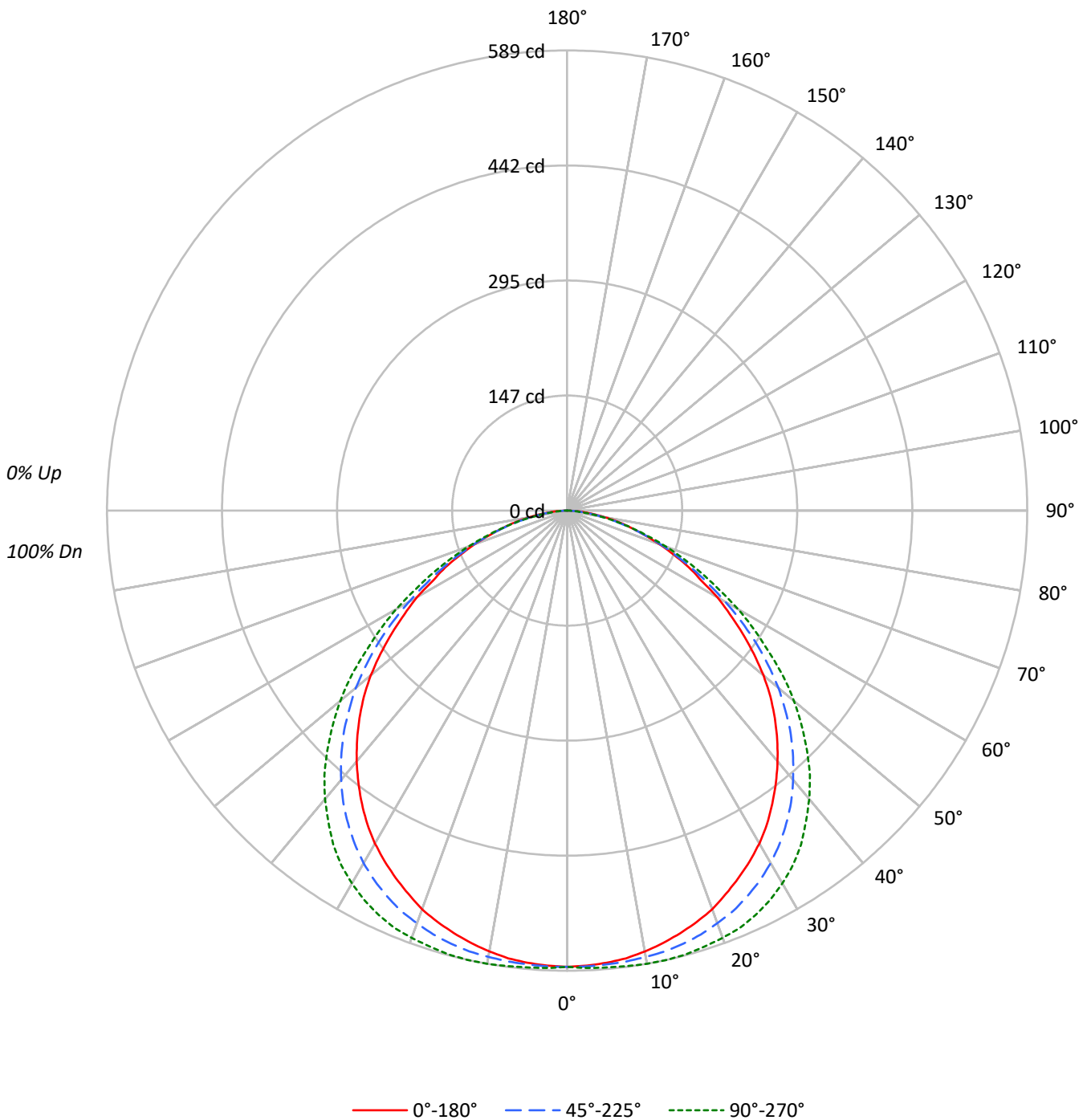
Input Watts (W): 16.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1870	1870	1870
5°	1868	1874	1887
10°	1863	1886	1915
15°	1857	1903	1950
20°	1851	1915	1984
25°	1834	1926	2018
30°	1819	1927	2038
35°	1791	1912	2041
40°	1752	1881	2015
45°	1703	1834	1966
50°	1634	1759	1888
55°	1530	1647	1759
60°	1422	1499	1621
65°	1303	1349	1440
70°	1180	1199	1255
75°	1039	1015	1052
80°	904	830	793
85°	735	551	478



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.6	3.4
10°-20°	162.2	9.9
20°-30°	251.2	15.4
30°-40°	305.8	18.7
40°-50°	311.4	19.0
50°-60°	262.6	16.1
60°-70°	177.6	10.9
70°-80°	88.8	5.4
80°-90°	19.7	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°	469.0	28.7
0°-40°	774.7	47.4
0°-60°	1348.8	82.5
0°-90°	1634.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1634.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	584	584	584	584	584	
5°	581	582	583	586	587	55
15°	560	564	574	584	588	158
25°	519	527	545	563	571	239
35°	458	468	489	512	522	286
45°	376	383	405	426	434	290
55°	274	278	295	309	315	245
65°	172	169	178	186	190	170
75°	84	81	82	83	85	90
85°	20	17	15	13	13	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	584	584	584	584	584
2.5°	583	583	584	585	586
5°	581	582	583	586	587
7.5°	578	579	582	586	588
10°	573	575	580	586	589
12.5°	567	570	578	585	589
15°	560	564	574	584	588
17.5°	552	557	569	580	585
20°	543	549	562	576	582
22.5°	531	539	555	571	578
25°	519	527	545	563	571
27.5°	506	515	534	554	562
30°	492	500	521	542	551
32.5°	476	484	506	528	538
35°	458	468	489	512	522
37.5°	439	448	471	493	502
40°	419	428	450	473	482
42.5°	398	407	428	450	460
45°	376	383	405	426	434
47.5°	353	358	379	399	407
50°	328	333	353	371	379
52.5°	301	305	324	340	349
55°	274	278	295	309	315
57.5°	247	249	264	278	284
60°	222	222	234	245	253
62.5°	193	196	205	216	219
65°	172	169	178	186	190
67.5°	148	146	152	159	161
70°	126	123	128	132	134
72.5°	103	102	104	107	108
75°	84	81	82	83	85
77.5°	67	62	63	62	63
80°	49	45	45	44	43
82.5°	33	31	29	27	26
85°	20	17	15	13	13
87.5°	8	6	5	5	5
90°	0	0	0	0	0

(END OF REPORT)