

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: P229573

Luminaire Tested: **22RLN-LD5-25-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36050)
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-L830-CD1-U
Description: METALUX 2X2 RLN LED TROFFER
Light Source: (126)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

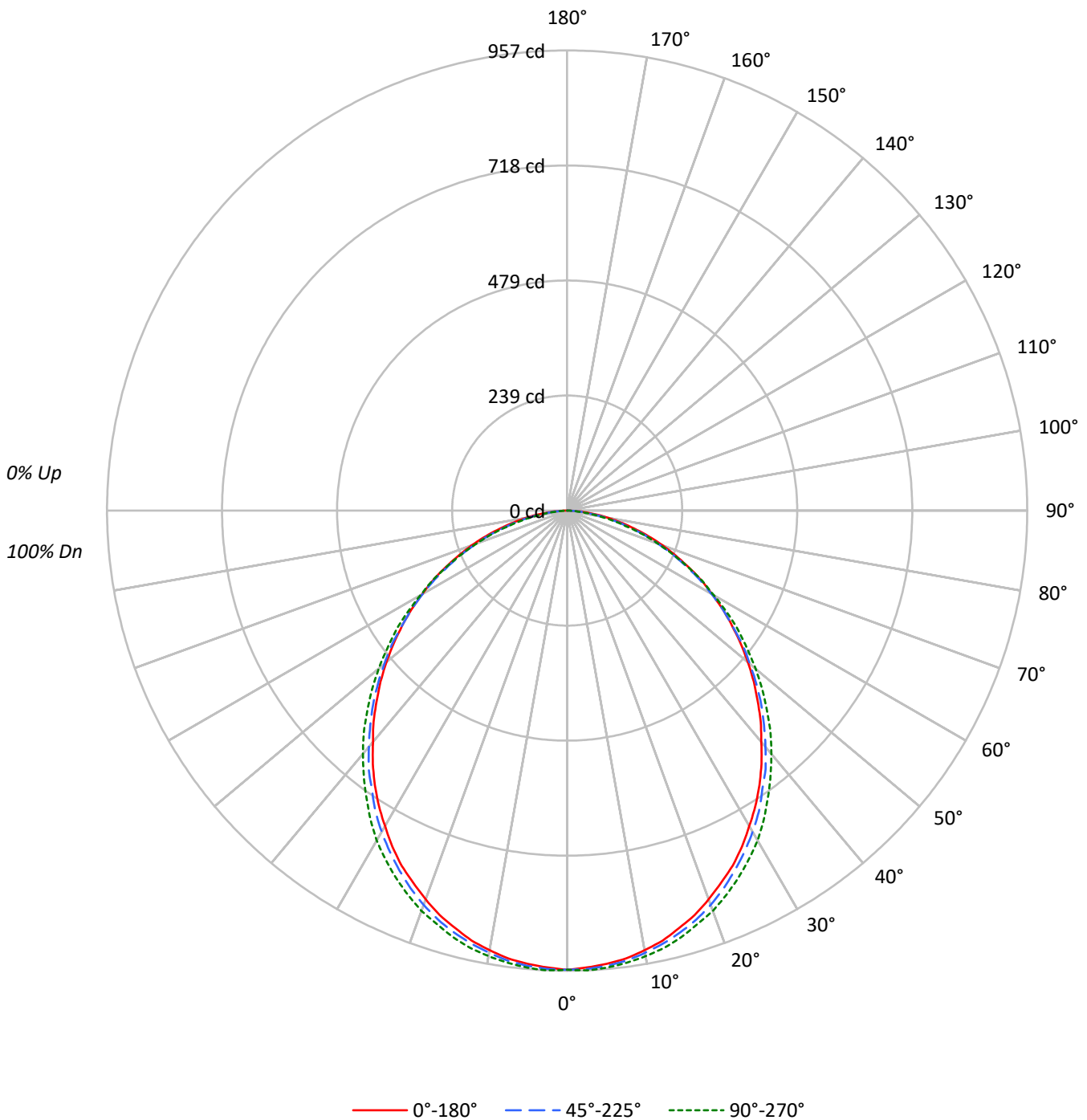
Lumens per Lamp: N/A
Luminaire Lumens: 2441.0 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

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	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
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	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3058	3058	3058
5°	3042	3055	3067
10°	3019	3037	3060
15°	2981	3012	3045
20°	2933	2975	3020
25°	2879	2917	2978
30°	2801	2853	2930
35°	2726	2768	2847
40°	2627	2682	2763
45°	2537	2587	2660
50°	2444	2471	2548
55°	2342	2346	2428
60°	2230	2221	2255
65°	2111	2064	2093
70°	1978	1877	1884
75°	1791	1647	1599
80°	1584	1385	1284
85°	1279	966	823



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.2	3.7
10°-20°	256.2	10.5
20°-30°	380.8	15.6
30°-40°	444.5	18.2
40°-50°	441.2	18.1
50°-60°	378.6	15.5
60°-70°	271.8	11.1
70°-80°	144.0	5.9
80°-90°	33.7	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°	727.2	29.8
0°-40°	1171.7	48.0
0°-60°	1991.5	81.6
0°-90°	2441.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2441.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	955	955	955	955	955	
5°	946	948	950	953	954	90
15°	899	902	908	915	918	254
25°	815	817	826	838	843	375
35°	697	700	708	724	728	435
45°	560	562	571	581	587	433
55°	419	417	420	430	435	375
65°	279	272	272	275	276	276
75°	145	138	133	132	129	154
85°	35	30	26	22	22	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	954.9	954.9	954.9	954.9	954.9
2.5°	951.0	951.8	954.1	956.4	957.2
5°	946.3	947.9	950.2	953.3	954.1
7.5°	939.4	940.9	944.0	947.1	948.7
10°	928.5	930.9	934.0	939.4	940.9
12.5°	916.2	917.7	922.4	928.5	931.6
15°	899.1	902.2	908.4	915.4	918.5
17.5°	882.1	884.4	892.2	899.1	901.5
20°	860.5	865.1	872.8	881.3	886.0
22.5°	837.2	841.1	850.4	860.5	865.1
25°	814.8	817.1	825.6	838.0	842.7
27.5°	787.7	790.0	799.3	811.7	817.9
30°	757.5	761.4	771.5	785.4	792.4
32.5°	728.9	732.0	742.1	754.4	761.4
35°	697.2	699.5	708.0	723.5	728.1
37.5°	663.9	666.2	677.8	689.4	694.9
40°	628.3	631.4	641.5	653.1	660.8
42.5°	595.8	597.4	605.9	619.0	626.0
45°	560.2	562.5	571.1	581.1	587.3
47.5°	526.2	525.4	533.9	545.5	550.2
50°	490.6	489.0	496.0	507.6	511.5
52.5°	455.0	452.7	460.4	468.9	472.0
55°	419.4	417.1	420.2	429.5	434.9
57.5°	384.6	380.7	384.6	389.2	393.9
60°	348.2	342.0	346.7	352.1	352.1
62.5°	314.9	308.0	310.3	314.2	316.5
65°	278.6	271.6	272.4	274.7	276.2
67.5°	244.5	237.6	236.0	236.8	237.6
70°	211.2	203.5	200.4	198.9	201.2
72.5°	177.2	169.5	167.9	164.8	165.6
75°	144.7	137.7	133.1	131.5	129.2
77.5°	113.7	107.6	103.7	99.0	98.3
80°	85.9	78.2	75.1	72.0	69.6
82.5°	60.4	53.4	48.0	44.9	42.6
85°	34.8	30.2	26.3	22.4	22.4
87.5°	13.9	10.8	9.3	8.5	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)