

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: P229590

Luminaire Tested: **22RLN-LD5-20-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229590
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-LD5-20-UNV-L930-CD1-U
Description: METALUX 2X2 RLN LED TROFFER
Light Source: (126)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

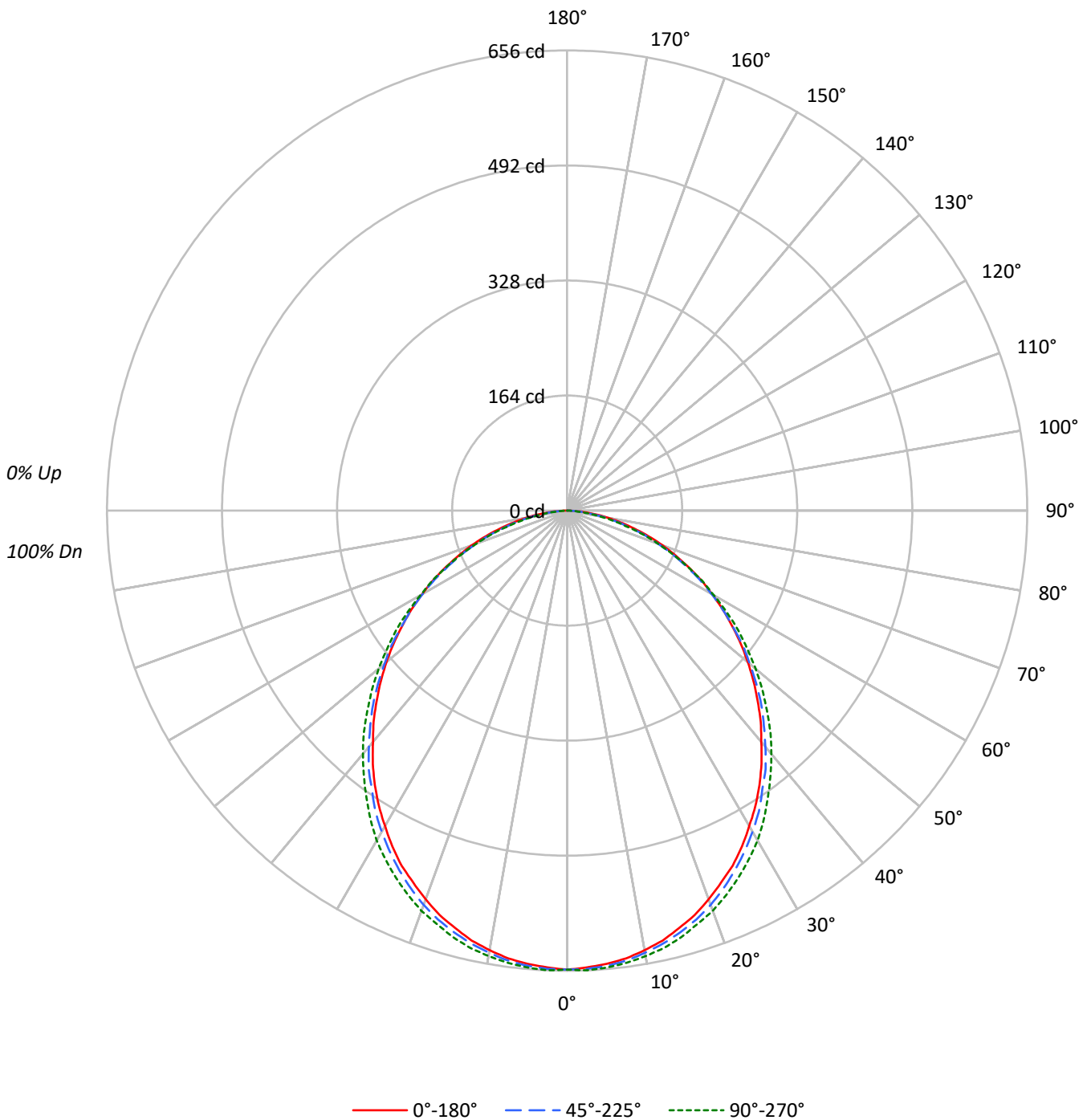
Lumens per Lamp: N/A
Luminaire Lumens: 1673.0 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 16.43
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°	2096	2096	2096
5°	2085	2094	2102
10°	2070	2082	2097
15°	2043	2064	2087
20°	2010	2039	2069
25°	1973	2000	2041
30°	1920	1955	2008
35°	1868	1897	1951
40°	1800	1838	1893
45°	1739	1773	1823
50°	1675	1694	1747
55°	1605	1608	1664
60°	1529	1522	1546
65°	1447	1415	1435
70°	1356	1287	1291
75°	1227	1129	1096
80°	1086	948	880
85°	878	661	566



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.8	3.7
10°-20°	175.6	10.5
20°-30°	261.0	15.6
30°-40°	304.7	18.2
40°-50°	302.4	18.1
50°-60°	259.5	15.5
60°-70°	186.3	11.1
70°-80°	98.7	5.9
80°-90°	23.1	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°	498.4	29.8
0°-40°	803.0	48.0
0°-60°	1364.9	81.6
0°-90°	1673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1673.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	654	654	654	654	654	
5°	649	650	651	653	654	62
15°	616	618	623	627	630	174
25°	558	560	566	574	578	257
35°	478	479	485	496	499	298
45°	384	386	391	398	402	296
55°	287	286	288	294	298	257
65°	191	186	187	188	189	189
75°	99	94	91	90	89	106
85°	24	21	18	15	15	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	654.4	654.4	654.4	654.4	654.4
2.5°	651.8	652.3	653.9	655.5	656.0
5°	648.6	649.7	651.3	653.4	653.9
7.5°	643.8	644.9	647.0	649.1	650.2
10°	636.4	638.0	640.1	643.8	644.9
12.5°	627.9	629.0	632.2	636.4	638.5
15°	616.2	618.4	622.6	627.4	629.5
17.5°	604.6	606.2	611.5	616.2	617.8
20°	589.7	592.9	598.2	604.1	607.2
22.5°	573.8	576.5	582.8	589.7	592.9
25°	558.4	560.0	565.9	574.4	577.5
27.5°	539.9	541.5	547.8	556.3	560.6
30°	519.2	521.8	528.7	538.3	543.1
32.5°	499.6	501.7	508.6	517.1	521.8
35°	477.8	479.4	485.3	495.9	499.0
37.5°	455.0	456.6	464.6	472.5	476.2
40°	430.6	432.8	439.6	447.6	452.9
42.5°	408.4	409.4	415.3	424.3	429.0
45°	384.0	385.6	391.4	398.3	402.5
47.5°	360.6	360.1	365.9	373.9	377.1
50°	336.2	335.2	339.9	347.9	350.6
52.5°	311.8	310.2	315.5	321.4	323.5
55°	287.4	285.9	288.0	294.3	298.0
57.5°	263.6	260.9	263.6	266.8	269.9
60°	238.7	234.4	237.6	241.3	241.3
62.5°	215.8	211.1	212.7	215.3	216.9
65°	190.9	186.1	186.7	188.3	189.3
67.5°	167.6	162.8	161.8	162.3	162.8
70°	144.8	139.5	137.4	136.3	137.9
72.5°	121.4	116.1	115.1	113.0	113.5
75°	99.2	94.4	91.2	90.2	88.6
77.5°	78.0	73.7	71.1	67.9	67.4
80°	58.9	53.6	51.4	49.3	47.7
82.5°	41.4	36.6	32.9	30.8	29.2
85°	23.9	20.7	18.0	15.4	15.4
87.5°	9.5	7.4	6.4	5.8	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)