

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: P229662

Luminaire Tested: **22RLN-LD5-20-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229662
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-LD5-20-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: 1612.0 lumens
Efficiency: N/A
Efficacy: 98.1 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

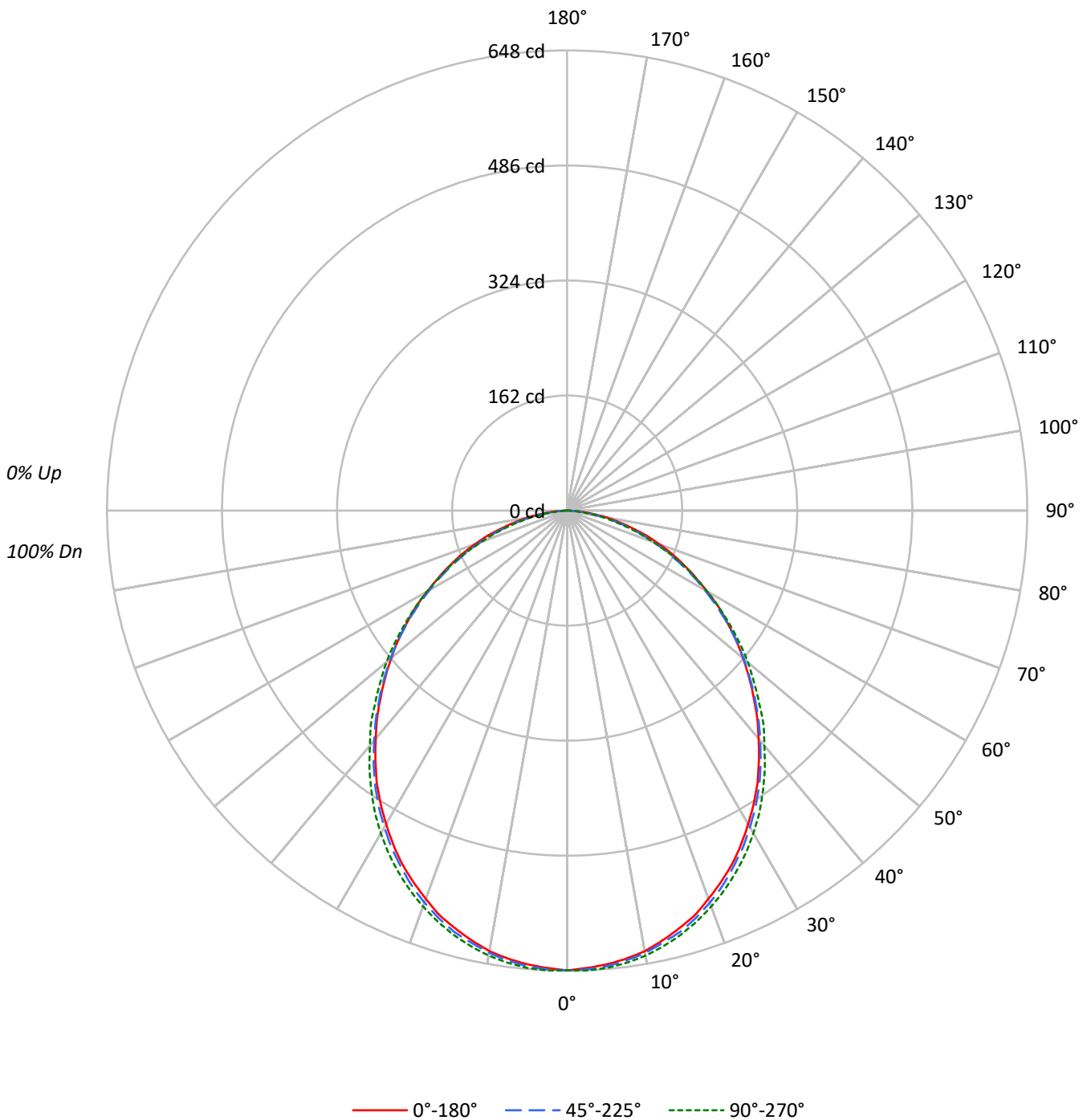
Input Watts (W): 16.43
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2073	2073	2073
5°	2062	2070	2078
10°	2048	2057	2070
15°	2020	2036	2050
20°	1983	2003	2022
25°	1942	1956	1986
30°	1885	1903	1940
35°	1828	1844	1879
40°	1753	1767	1805
45°	1682	1693	1731
50°	1610	1619	1656
55°	1537	1532	1559
60°	1455	1433	1460
65°	1375	1325	1356
70°	1288	1218	1195
75°	1169	1077	1036
80°	1055	917	856
85°	823	639	548



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.1	3.8
10°-20°	172.9	10.7
20°-30°	255.4	15.8
30°-40°	295.3	18.3
40°-50°	289.6	18.0
50°-60°	246.3	15.3
60°-70°	175.5	10.9
70°-80°	93.6	5.8
80°-90°	22.2	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°	489.4	30.4
0°-40°	784.7	48.7
0°-60°	1320.7	81.9
0°-90°	1612.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1612.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	647	647	647	647	647	
5°	642	642	644	646	646	61
15°	609	610	614	618	618	172
25°	550	550	554	559	562	253
35°	468	466	472	479	481	292
45°	371	370	374	380	382	287
55°	275	273	274	278	279	247
65°	182	176	175	176	179	180
75°	94	90	87	85	84	101
85°	22	20	17	15	15	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	647.3	647.3	647.3	647.3	647.3
2.5°	644.8	645.6	646.5	648.1	648.1
5°	641.5	642.3	644.0	645.6	646.5
7.5°	636.5	636.5	639.0	640.7	642.3
10°	629.9	630.7	632.4	634.9	636.5
12.5°	620.0	621.6	623.3	626.6	628.2
15°	609.2	610.0	614.2	617.5	618.3
17.5°	597.6	597.6	601.7	605.0	606.7
20°	581.8	583.5	587.6	591.8	593.4
22.5°	566.1	567.7	571.9	576.0	578.5
25°	549.5	550.3	553.6	559.4	561.9
27.5°	530.4	532.1	535.4	541.2	544.5
30°	509.7	511.4	514.7	521.3	524.6
32.5°	489.0	490.7	494.0	500.6	503.9
35°	467.5	465.8	471.6	479.1	480.7
37.5°	443.4	444.2	447.6	454.2	457.5
40°	419.4	419.4	422.7	430.2	431.8
42.5°	396.2	395.3	398.7	405.3	409.4
45°	371.3	370.5	373.8	380.4	382.1
47.5°	347.3	345.6	348.9	354.7	356.4
50°	323.2	321.6	324.9	329.9	332.4
52.5°	300.0	296.7	299.2	303.3	305.8
55°	275.2	272.7	274.3	277.7	279.3
57.5°	252.8	247.8	248.6	252.0	253.6
60°	227.1	223.0	223.8	227.1	227.9
62.5°	203.9	199.7	199.7	200.6	202.2
65°	181.5	175.7	174.9	175.7	179.0
67.5°	160.0	154.2	152.5	152.5	153.3
70°	137.6	131.8	130.1	129.3	127.6
72.5°	116.9	109.4	108.6	106.1	106.9
75°	94.5	89.5	87.0	85.4	83.7
77.5°	74.6	70.4	67.1	64.6	64.6
80°	57.2	51.4	49.7	46.4	46.4
82.5°	38.1	35.6	32.3	29.8	29.0
85°	22.4	19.9	17.4	14.9	14.9
87.5°	8.3	6.6	5.8	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)