

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: P229692

Luminaire Tested: **22RLN-LD5-20-RDP-UNV-L840-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1707-178-5)
Test Lab: INNOVATION CENTER-G3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-20-RDP-UNV-L840-CD1-SVPD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (126)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1575.0 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.36
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

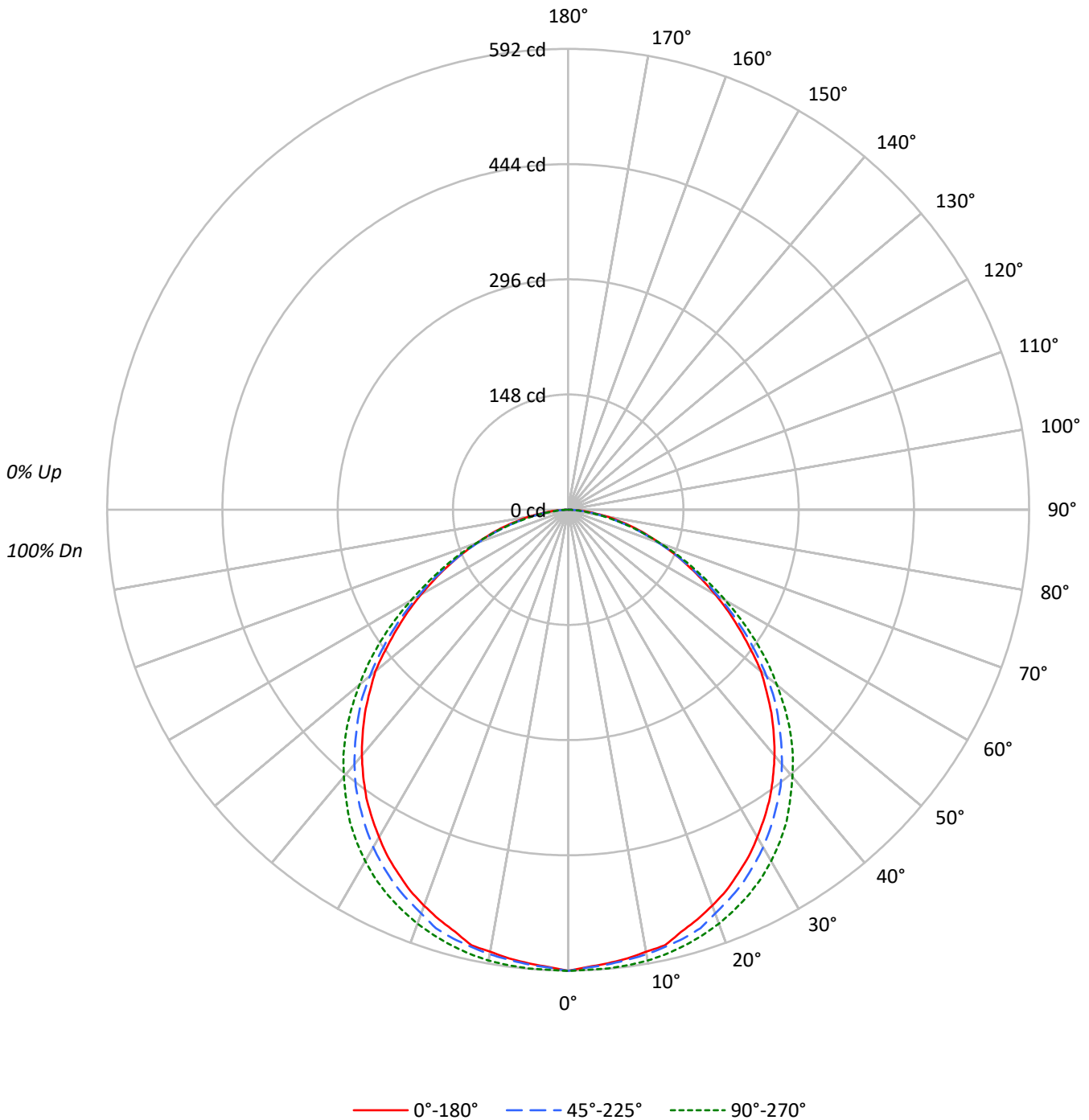
Input Watts (W): 16.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	87	82	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	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	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	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1897	1897	1897
5°	1881	1885	1902
10°	1875	1886	1913
15°	1861	1892	1921
20°	1844	1881	1929
25°	1823	1871	1932
30°	1797	1852	1927
35°	1766	1823	1912
40°	1723	1786	1873
45°	1671	1730	1827
50°	1610	1657	1743
55°	1503	1553	1638
60°	1399	1426	1494
65°	1281	1292	1344
70°	1160	1142	1173
75°	1060	985	997
80°	944	808	782
85°	753	548	478



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.9	3.5
10°-20°	160.9	10.2
20°-30°	244.5	15.5
30°-40°	292.6	18.6
40°-50°	295.5	18.8
50°-60°	249.3	15.8
60°-70°	170.2	10.8
70°-80°	86.3	5.5
80°-90°	19.9	1.3
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°	461.2	29.3
0°-40°	753.8	47.9
0°-60°	1298.6	82.4
0°-90°	1575.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1575.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	592	592	592	592	592	
5°	585	585	586	589	592	56
15°	561	564	570	575	579	159
25°	516	521	530	541	547	238
35°	452	456	466	481	489	282
45°	369	371	382	397	403	284
55°	269	269	278	288	293	241
65°	169	167	170	174	177	168
75°	86	81	80	79	81	91
85°	20	18	15	14	13	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	592.4	592.4	592.4	592.4	592.4
2.5°	587.8	587.8	588.7	592.0	591.5
5°	585.0	585.0	586.4	589.2	591.5
7.5°	581.3	581.7	583.1	587.3	590.1
10°	576.6	577.1	579.9	584.0	588.2
12.5°	573.3	573.8	575.2	580.3	584.5
15°	561.2	563.6	570.5	574.7	579.4
17.5°	551.9	554.7	564.0	567.7	573.3
20°	541.2	544.5	551.9	560.3	565.9
22.5°	530.0	533.7	541.2	551.0	557.0
25°	516.0	520.7	529.6	540.7	546.8
27.5°	502.1	506.7	515.6	531.0	535.1
30°	485.8	490.9	500.7	515.6	521.2
32.5°	469.0	473.7	483.9	499.3	505.8
35°	451.8	455.5	466.2	480.7	489.0
37.5°	432.2	435.9	448.0	462.0	468.5
40°	412.2	415.0	427.1	441.1	448.0
42.5°	390.8	393.6	404.7	419.2	427.1
45°	368.9	370.7	381.9	396.8	403.3
47.5°	345.6	347.4	359.1	371.2	377.3
50°	323.2	322.3	332.5	343.7	349.8
52.5°	295.7	296.2	305.1	315.8	322.8
55°	269.2	268.7	278.1	288.3	293.4
57.5°	244.5	242.7	250.6	257.6	263.6
60°	218.4	216.6	222.6	230.1	233.3
62.5°	193.3	191.0	197.0	201.2	204.5
65°	169.1	166.7	170.5	173.7	177.4
67.5°	146.2	143.5	146.7	148.6	151.4
70°	123.9	121.6	122.0	124.4	125.3
72.5°	104.8	100.1	100.6	100.6	102.0
75°	85.7	80.6	79.6	79.2	80.6
77.5°	66.6	62.4	61.0	60.5	60.5
80°	51.2	45.6	43.8	42.4	42.4
82.5°	33.5	31.7	28.4	26.5	25.6
85°	20.5	17.7	14.9	13.5	13.0
87.5°	7.9	6.5	5.6	5.6	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)