

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: P229681

Luminaire Tested: **22RLN-LD5-25-RDP-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229681
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-LD5-25-RDP-UNV-L830-CD1-SVPD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (126)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1907.0 lumens
Efficiency: N/A
Efficacy: 91.2 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

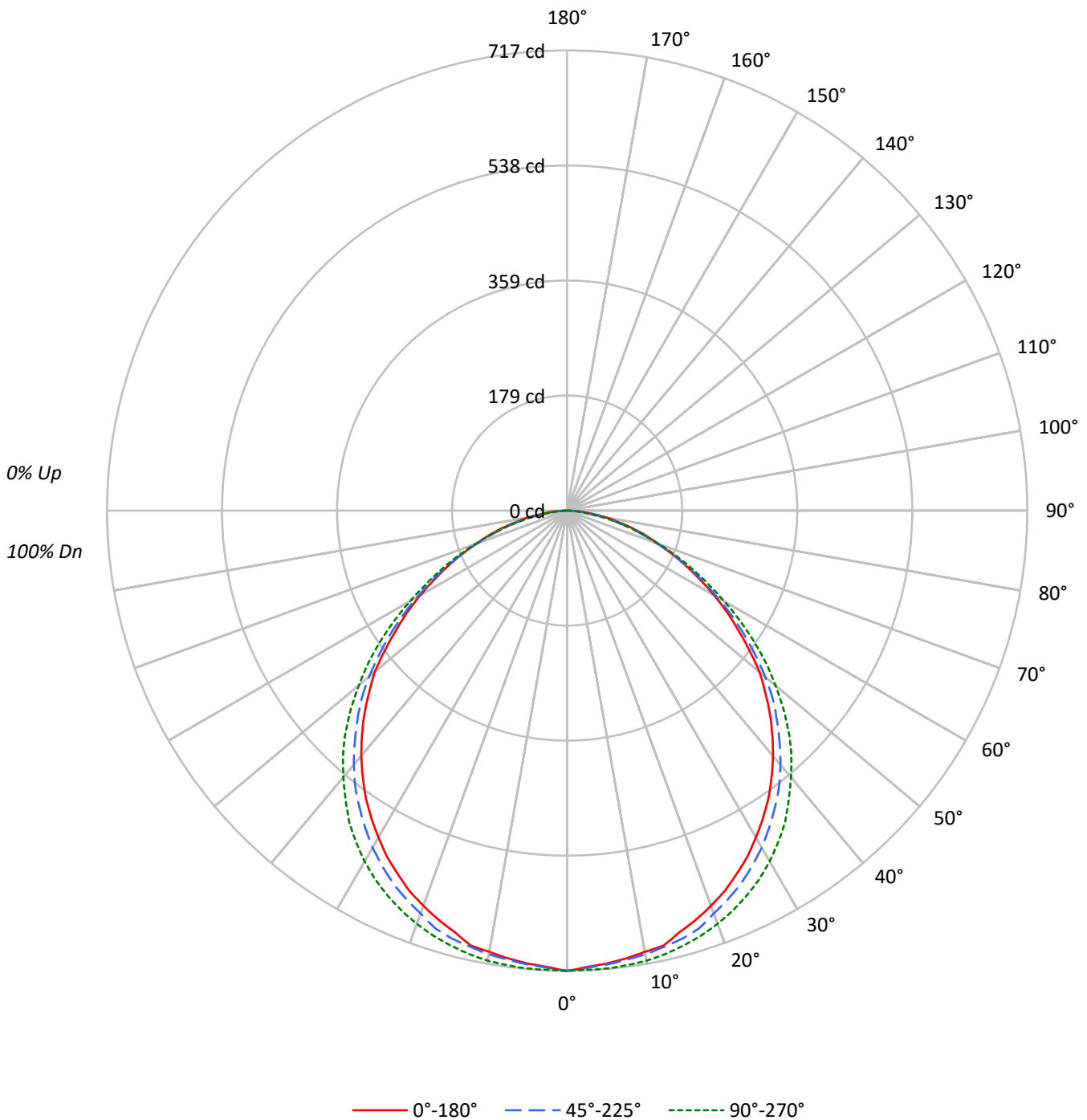
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2297	2297	2297
5°	2277	2283	2302
10°	2270	2283	2316
15°	2253	2290	2326
20°	2233	2277	2335
25°	2208	2266	2339
30°	2175	2242	2333
35°	2139	2207	2315
40°	2087	2162	2268
45°	2023	2094	2212
50°	1950	2006	2110
55°	1820	1880	1984
60°	1694	1727	1809
65°	1551	1564	1629
70°	1405	1383	1420
75°	1284	1193	1208
80°	1143	977	946
85°	911	661	581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	3.5
10°-20°	194.8	10.2
20°-30°	296.0	15.5
30°-40°	354.3	18.6
40°-50°	357.8	18.8
50°-60°	301.8	15.8
60°-70°	206.1	10.8
70°-80°	104.5	5.5
80°-90°	24.1	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°	558.4	29.3
0°-40°	912.7	47.9
0°-60°	1572.3	82.4
0°-90°	1907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1907.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	717	717	717	717	717	
5°	708	708	710	713	716	67
15°	680	682	691	696	702	192
25°	625	630	641	655	662	288
35°	547	552	564	582	592	342
45°	447	449	462	480	488	344
55°	326	325	337	349	355	292
65°	205	202	206	210	215	204
75°	104	98	96	96	98	110
85°	25	21	18	16	16	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	717.3	717.3	717.3	717.3	717.3
2.5°	711.7	711.7	712.8	716.7	716.2
5°	708.3	708.3	710.0	713.4	716.2
7.5°	703.8	704.3	706.0	711.1	714.5
10°	698.1	698.7	702.1	707.2	712.2
12.5°	694.2	694.8	696.4	702.6	707.7
15°	679.5	682.3	690.8	695.9	701.5
17.5°	668.2	671.6	682.9	687.4	694.2
20°	655.3	659.2	668.2	678.4	685.2
22.5°	641.7	646.3	655.3	667.1	674.5
25°	624.8	630.5	641.2	654.7	662.0
27.5°	607.9	613.5	624.3	642.9	647.9
30°	588.2	594.4	606.2	624.3	631.0
32.5°	567.9	573.5	585.9	604.5	612.4
35°	547.0	551.5	564.5	582.0	592.1
37.5°	523.3	527.8	542.5	559.4	567.3
40°	499.1	502.5	517.1	534.0	542.5
42.5°	473.1	476.5	490.0	507.5	517.1
45°	446.6	448.9	462.4	480.5	488.4
47.5°	418.4	420.7	434.8	449.4	456.8
50°	391.4	390.2	402.6	416.2	423.5
52.5°	358.1	358.7	369.4	382.3	390.8
55°	325.9	325.4	336.7	349.1	355.3
57.5°	296.1	293.8	303.4	311.8	319.2
60°	264.5	262.2	269.6	278.6	282.5
62.5°	234.0	231.2	238.5	243.6	247.6
65°	204.7	201.9	206.4	210.3	214.9
67.5°	177.1	173.7	177.6	179.9	183.3
70°	150.0	147.2	147.7	150.6	151.7
72.5°	126.9	121.2	121.8	121.8	123.5
75°	103.8	97.6	96.4	95.9	97.6
77.5°	80.6	75.6	73.9	73.3	73.3
80°	62.0	55.3	53.0	51.3	51.3
82.5°	40.6	38.3	34.4	32.1	31.0
85°	24.8	21.4	18.0	16.4	15.8
87.5°	9.6	7.9	6.8	6.8	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)