

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: P296491

Luminaire Tested: **22RLN-LD5-20-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296491
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-20-UNV-L92765-W2A1-U-4500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1818.0 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

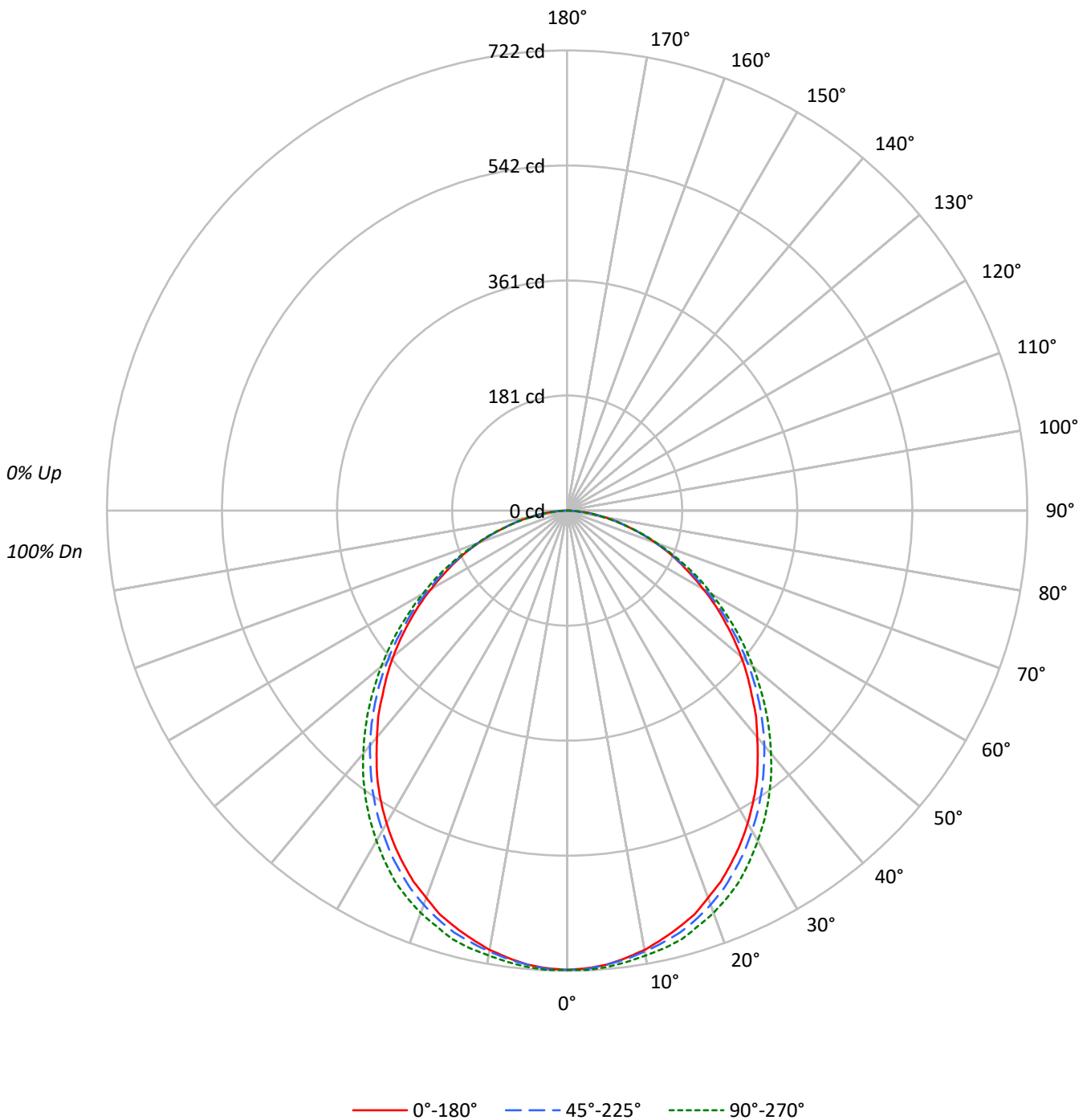
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	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	64	55	49	61	54	49	59	53	48	58	52	48	46
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
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°	1939	1939	1939
5°	1932	1932	1942
10°	1912	1920	1937
15°	1886	1909	1939
20°	1851	1885	1924
25°	1811	1849	1903
30°	1760	1803	1859
35°	1703	1751	1810
40°	1630	1691	1748
45°	1559	1621	1676
50°	1491	1541	1594
55°	1412	1454	1506
60°	1327	1361	1410
65°	1247	1270	1310
70°	1162	1162	1184
75°	1037	1037	1037
80°	913	885	885
85°	729	701	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.0	3.7
10°-20°	193.2	10.6
20°-30°	287.0	15.8
30°-40°	333.1	18.3
40°-50°	328.0	18.0
50°-60°	277.6	15.3
60°-70°	198.0	10.9
70°-80°	106.4	5.9
80°-90°	26.8	1.5
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°	548.2	30.2
0°-40°	881.3	48.5
0°-60°	1486.8	81.8
0°-90°	1818.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1818.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	721	721	721	721	721	
5°	715	715	715	718	719	68
15°	677	679	685	692	696	191
25°	610	612	623	634	641	281
35°	518	519	533	546	551	324
45°	410	412	426	436	440	317
55°	301	302	310	318	321	270
65°	196	196	199	203	206	194
75°	100	99	100	100	100	107
85°	24	23	23	21	21	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	720.6	720.6	720.6	720.6	720.6
2.5°	718.8	718.8	719.7	720.6	721.5
5°	715.2	715.2	715.2	717.9	718.8
7.5°	707.9	708.8	709.7	712.5	714.3
10°	699.8	700.7	702.5	707.0	708.8
12.5°	688.9	691.6	694.3	700.7	703.4
15°	677.1	678.9	685.3	691.6	696.1
17.5°	664.4	665.3	672.6	681.6	683.5
20°	646.3	649.0	658.1	667.1	671.7
22.5°	630.0	631.8	641.8	653.5	657.2
25°	610.0	611.8	622.7	634.5	640.8
27.5°	589.2	591.0	602.8	615.5	620.0
30°	566.5	568.3	580.1	593.7	598.2
32.5°	543.0	544.8	557.5	569.2	575.6
35°	518.5	519.4	533.0	545.7	551.1
37.5°	491.3	494.0	506.7	519.4	525.7
40°	464.1	466.8	481.3	493.1	497.6
42.5°	438.7	442.3	454.1	465.0	469.5
45°	409.7	412.4	426.0	436.0	440.5
47.5°	383.4	386.1	397.9	407.9	410.6
50°	356.2	358.0	368.0	377.1	380.7
52.5°	329.0	329.9	339.0	348.1	350.8
55°	300.9	301.8	310.0	318.2	320.9
57.5°	274.6	274.6	281.9	288.2	291.0
60°	246.6	246.6	252.9	259.2	262.0
62.5°	220.3	220.3	226.6	231.1	234.8
65°	195.8	195.8	199.4	203.0	205.8
67.5°	172.2	169.5	173.1	177.7	176.8
70°	147.7	145.0	147.7	149.6	150.5
72.5°	123.3	121.5	123.3	124.2	126.0
75°	99.7	98.8	99.7	99.7	99.7
77.5°	79.8	77.0	78.9	78.0	77.0
80°	58.9	58.0	57.1	56.2	57.1
82.5°	40.8	39.9	39.9	38.1	38.1
85°	23.6	22.7	22.7	20.8	20.8
87.5°	9.1	9.1	8.2	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)