

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: P296464

Luminaire Tested: **22RLN-LD5-25-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296464
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-LD5-25-UNV-L93050-W2A1-U-4000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2263.0 lumens
Efficiency: N/A
Efficacy: 117.0 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

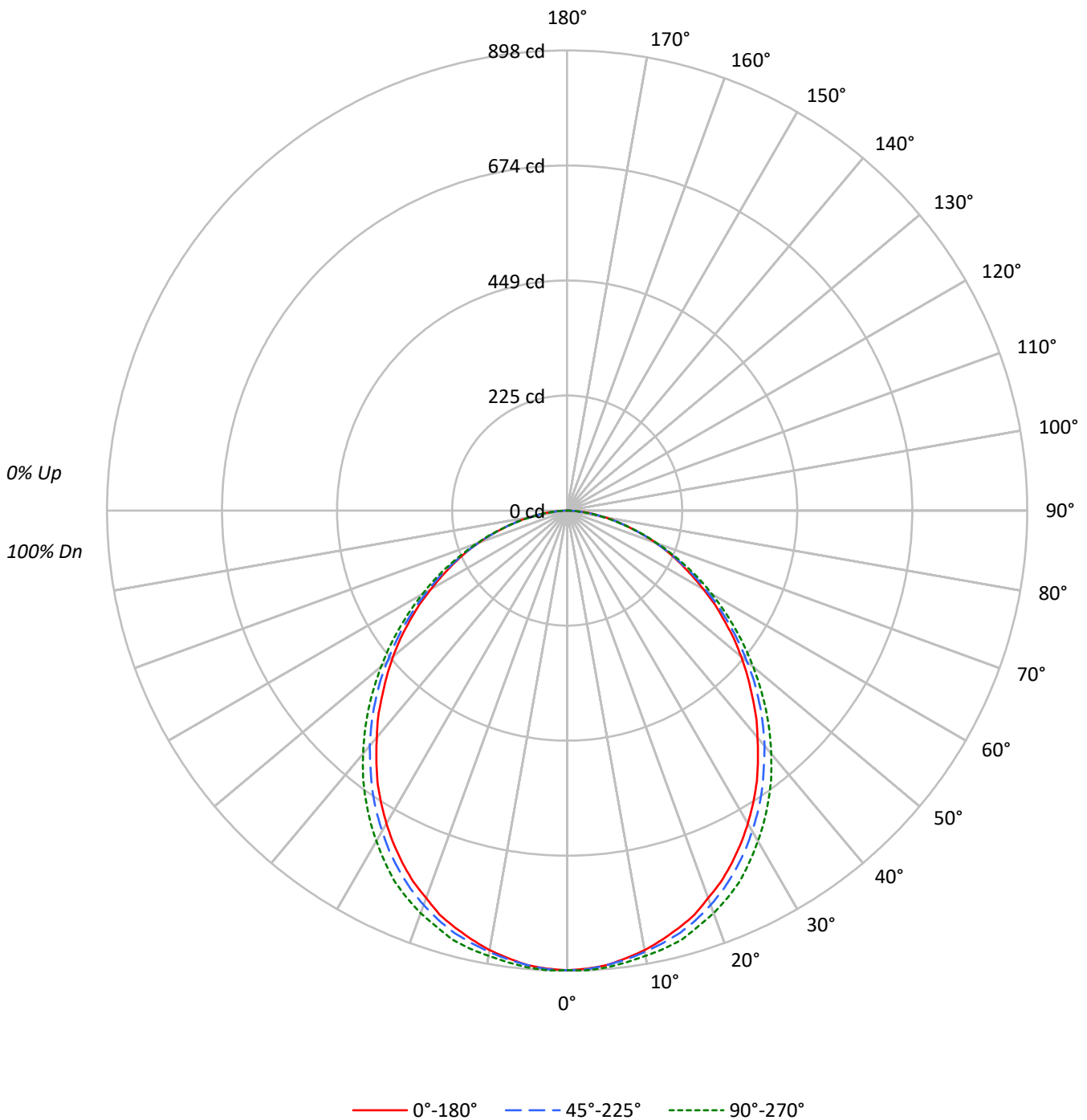
Input Watts (W): 19.344
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2414	2414	2414
5°	2405	2405	2417
10°	2380	2389	2411
15°	2348	2376	2414
20°	2304	2346	2394
25°	2255	2301	2369
30°	2191	2244	2314
35°	2120	2179	2254
40°	2029	2105	2176
45°	1941	2018	2087
50°	1856	1918	1984
55°	1757	1810	1874
60°	1652	1694	1755
65°	1552	1580	1631
70°	1447	1447	1474
75°	1290	1290	1290
80°	1136	1102	1102
85°	905	871	803



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	3.7
10°-20°	240.5	10.6
20°-30°	357.3	15.8
30°-40°	414.6	18.3
40°-50°	408.3	18.0
50°-60°	345.5	15.3
60°-70°	246.4	10.9
70°-80°	132.4	5.9
80°-90°	33.4	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°	682.4	30.2
0°-40°	1097.0	48.5
0°-60°	1850.8	81.8
0°-90°	2263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2263.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	897	897	897	897	897	
5°	890	890	890	894	895	84
15°	843	845	853	861	866	238
25°	759	762	775	790	798	349
35°	645	646	663	679	686	403
45°	510	513	530	543	548	394
55°	375	376	386	396	399	336
65°	244	244	248	253	256	242
75°	124	123	124	124	124	133
85°	29	28	28	26	26	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	897.0	897.0	897.0	897.0	897.0
2.5°	894.7	894.7	895.9	897.0	898.1
5°	890.2	890.2	890.2	893.6	894.7
7.5°	881.2	882.3	883.5	886.8	889.1
10°	871.1	872.2	874.4	880.1	882.3
12.5°	857.5	860.9	864.3	872.2	875.6
15°	842.8	845.1	853.0	860.9	866.5
17.5°	827.0	828.2	837.2	848.5	850.7
20°	804.5	807.9	819.2	830.4	836.1
22.5°	784.2	786.4	798.8	813.5	818.0
25°	759.4	761.6	775.1	789.8	797.7
27.5°	733.4	735.7	750.3	766.1	771.8
30°	705.2	707.4	722.1	739.0	744.7
32.5°	675.9	678.1	693.9	708.6	716.5
35°	645.4	646.5	663.4	679.2	686.0
37.5°	611.5	614.9	630.7	646.5	654.4
40°	577.7	581.1	599.1	613.8	619.4
42.5°	546.1	550.6	565.3	578.8	584.5
45°	510.0	513.4	530.3	542.7	548.4
47.5°	477.3	480.7	495.3	507.7	511.1
50°	443.4	445.7	458.1	469.4	473.9
52.5°	409.6	410.7	422.0	433.3	436.7
55°	374.6	375.7	385.9	396.0	399.4
57.5°	341.9	341.9	350.9	358.8	362.2
60°	306.9	306.9	314.8	322.7	326.1
62.5°	274.2	274.2	282.1	287.7	292.2
65°	243.7	243.7	248.2	252.7	256.1
67.5°	214.4	211.0	215.5	221.1	220.0
70°	183.9	180.5	183.9	186.2	187.3
72.5°	153.4	151.2	153.4	154.6	156.8
75°	124.1	123.0	124.1	124.1	124.1
77.5°	99.3	95.9	98.2	97.0	95.9
80°	73.3	72.2	71.1	70.0	71.1
82.5°	50.8	49.6	49.6	47.4	47.4
85°	29.3	28.2	28.2	26.0	26.0
87.5°	11.3	11.3	10.2	10.2	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)