

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: P296459

Luminaire Tested: **22RLN-LD5-20-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296459
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-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: 1842.0 lumens
Efficiency: N/A
Efficacy: 116.5 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

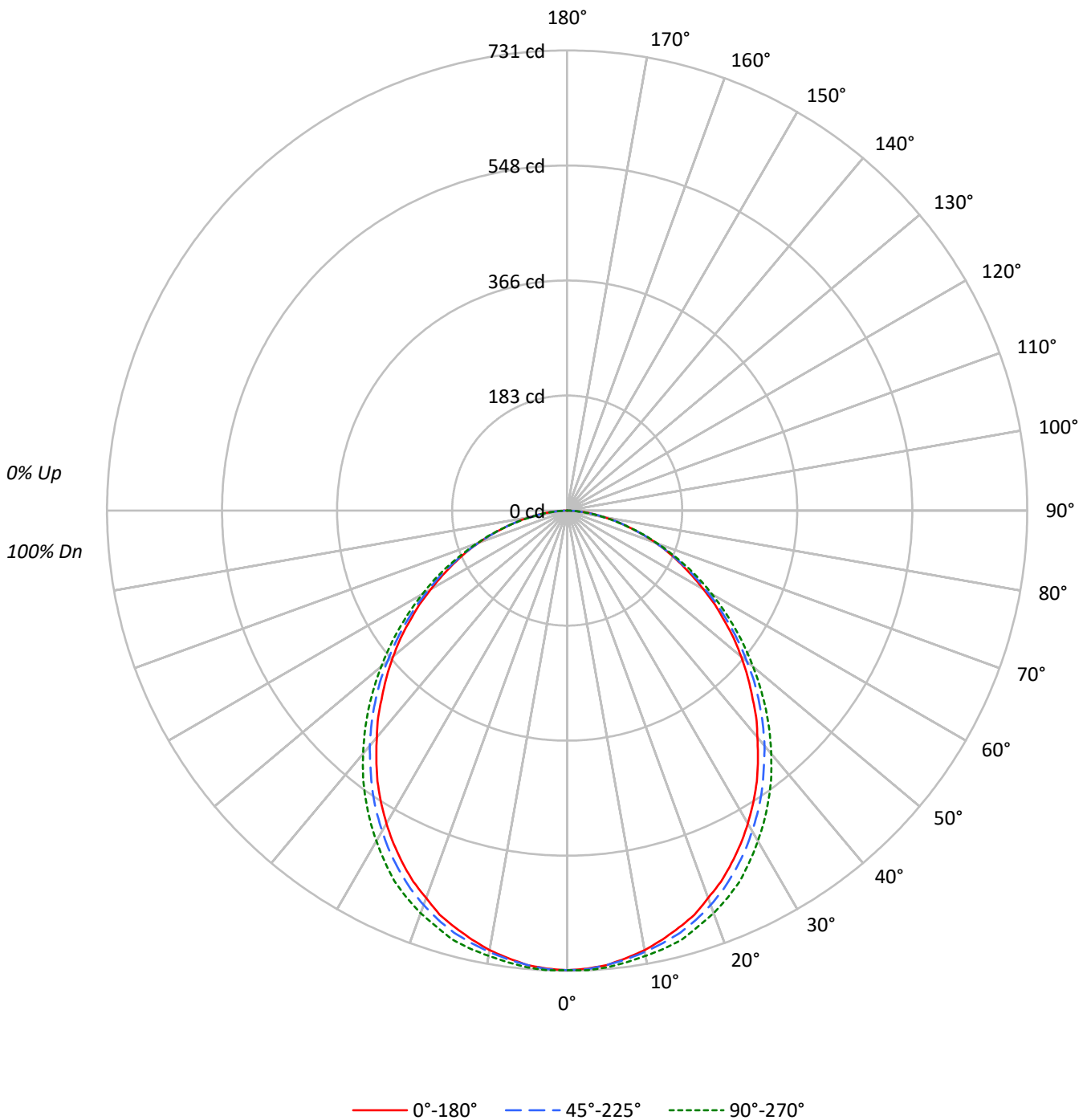
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1965	1965	1965
5°	1957	1957	1967
10°	1937	1945	1962
15°	1911	1934	1965
20°	1875	1910	1949
25°	1835	1873	1928
30°	1784	1826	1883
35°	1726	1774	1834
40°	1652	1713	1771
45°	1580	1643	1698
50°	1511	1561	1615
55°	1430	1474	1525
60°	1344	1379	1428
65°	1263	1286	1328
70°	1178	1178	1200
75°	1050	1050	1050
80°	925	897	897
85°	738	710	651



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	3.7
10°-20°	195.8	10.6
20°-30°	290.8	15.8
30°-40°	337.5	18.3
40°-50°	332.3	18.0
50°-60°	281.2	15.3
60°-70°	200.6	10.9
70°-80°	107.8	5.9
80°-90°	27.2	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°	555.4	30.2
0°-40°	892.9	48.5
0°-60°	1506.5	81.8
0°-90°	1842.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1842.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	730	730	730	730	730	
5°	725	725	725	727	728	69
15°	686	688	694	701	705	193
25°	618	620	631	643	649	284
35°	525	526	540	553	558	328
45°	415	418	432	442	446	321
55°	305	306	314	322	325	273
65°	198	198	202	206	208	197
75°	101	100	101	101	101	108
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°	730.1	730.1	730.1	730.1	730.1
2.5°	728.3	728.3	729.2	730.1	731.0
5°	724.6	724.6	724.6	727.4	728.3
7.5°	717.3	718.2	719.1	721.9	723.7
10°	709.0	709.9	711.8	716.4	718.2
12.5°	698.0	700.7	703.5	709.9	712.7
15°	686.0	687.9	694.3	700.7	705.3
17.5°	673.2	674.1	681.5	690.6	692.5
20°	654.8	657.6	666.8	675.9	680.5
22.5°	638.3	640.1	650.2	662.2	665.8
25°	618.1	619.9	630.9	642.9	649.3
27.5°	597.0	598.8	610.7	623.6	628.2
30°	574.0	575.8	587.8	601.6	606.1
32.5°	550.1	552.0	564.8	576.8	583.2
35°	525.3	526.2	540.0	552.9	558.4
37.5°	497.8	500.5	513.4	526.2	532.7
40°	470.2	473.0	487.7	499.6	504.2
42.5°	444.5	448.2	460.1	471.1	475.7
45°	415.1	417.9	431.6	441.8	446.3
47.5°	388.5	391.2	403.2	413.3	416.0
50°	360.9	362.8	372.9	382.1	385.7
52.5°	333.4	334.3	343.5	352.7	355.4
55°	304.9	305.8	314.1	322.4	325.1
57.5°	278.3	278.3	285.6	292.1	294.8
60°	249.8	249.8	256.2	262.7	265.4
62.5°	223.2	223.2	229.6	234.2	237.9
65°	198.4	198.4	202.0	205.7	208.5
67.5°	174.5	171.7	175.4	180.0	179.1
70°	149.7	146.9	149.7	151.5	152.5
72.5°	124.9	123.1	124.9	125.8	127.7
75°	101.0	100.1	101.0	101.0	101.0
77.5°	80.8	78.1	79.9	79.0	78.1
80°	59.7	58.8	57.9	56.9	57.9
82.5°	41.3	40.4	40.4	38.6	38.6
85°	23.9	23.0	23.0	21.1	21.1
87.5°	9.2	9.2	8.3	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)