

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: P296496

Luminaire Tested: **22RLN-LD5-25-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296496  
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-L92765-W2A1-U-2700K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1932.0 lumens  
Efficiency: N/A  
Efficacy: 102.3 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

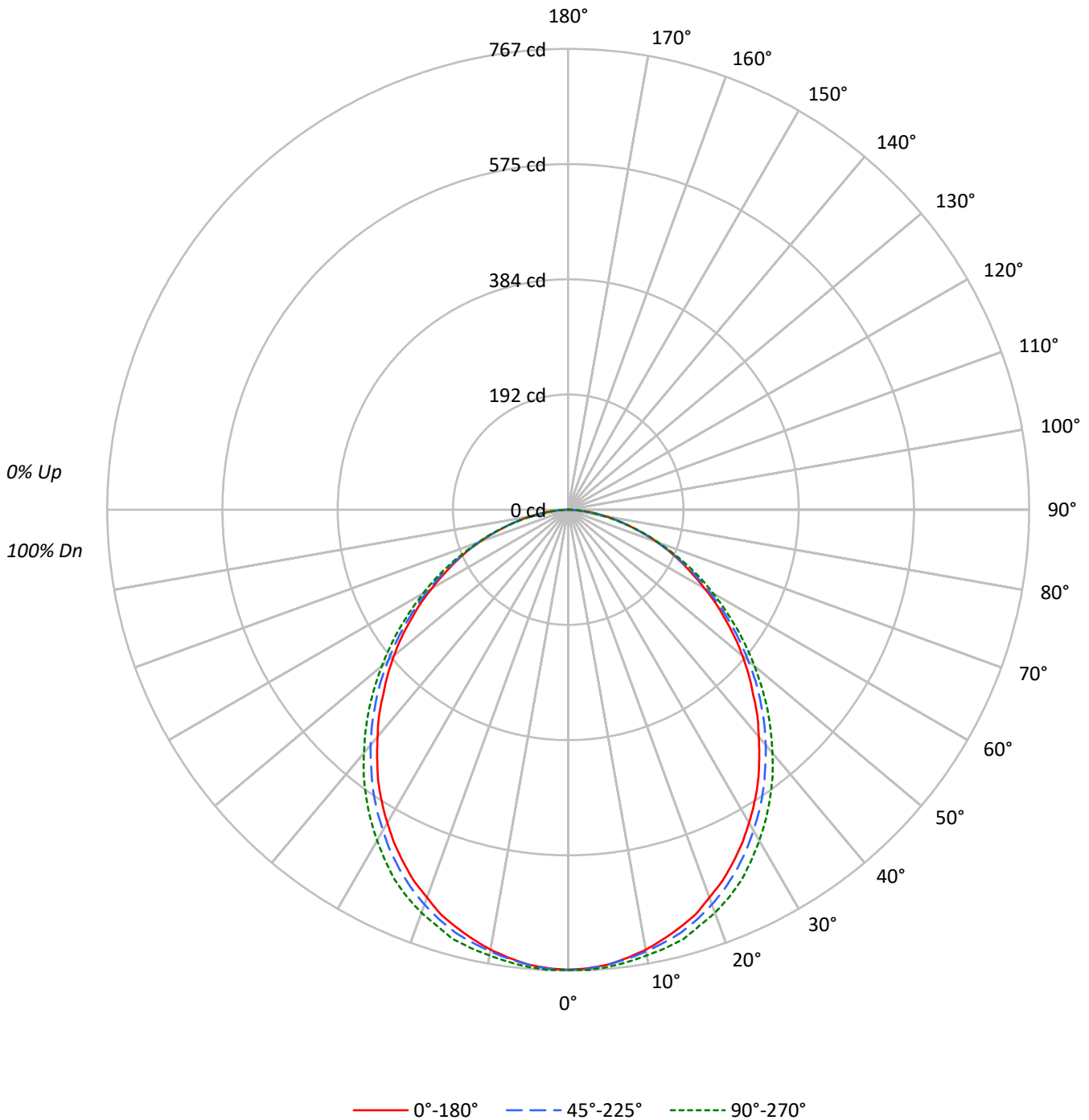
Input Watts (W): 18.879  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2061	2061	2061
5°	2053	2053	2063
10°	2032	2040	2058
15°	2005	2029	2061
20°	1967	2003	2044
25°	1925	1965	2022
30°	1871	1916	1976
35°	1810	1861	1924
40°	1733	1797	1858
45°	1657	1723	1782
50°	1585	1637	1694
55°	1500	1545	1600
60°	1410	1447	1498
65°	1325	1349	1393
70°	1235	1235	1258
75°	1102	1102	1102
80°	970	941	941
85°	772	744	685



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.2	3.7
10°-20°	205.3	10.6
20°-30°	305.0	15.8
30°-40°	354.0	18.3
40°-50°	348.6	18.0
50°-60°	295.0	15.3
60°-70°	210.4	10.9
70°-80°	113.1	5.9
80°-90°	28.5	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°	582.6	30.2
0°-40°	936.6	48.5
0°-60°	1580.1	81.8
0°-90°	1932.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1932.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	766	766	766	766	766	
5°	760	760	760	763	764	72
15°	720	722	728	735	740	203
25°	648	650	662	674	681	298
35°	551	552	566	580	586	344
45°	435	438	453	463	468	337
55°	320	321	329	338	341	286
65°	208	208	212	216	219	206
75°	106	105	106	106	106	114
85°	25	24	24	22	22	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	765.8	765.8	765.8	765.8	765.8
2.5°	763.9	763.9	764.8	765.8	766.8
5°	760.0	760.0	760.0	762.9	763.9
7.5°	752.3	753.3	754.2	757.1	759.1
10°	743.6	744.6	746.5	751.4	753.3
12.5°	732.1	735.0	737.9	744.6	747.5
15°	719.6	721.5	728.2	735.0	739.8
17.5°	706.1	707.0	714.7	724.4	726.3
20°	686.8	689.7	699.3	709.0	713.8
22.5°	669.5	671.4	682.0	694.5	698.4
25°	648.3	650.2	661.8	674.3	681.0
27.5°	626.1	628.1	640.6	654.1	658.9
30°	602.0	604.0	616.5	630.9	635.8
32.5°	577.0	578.9	592.4	604.9	611.7
35°	551.0	552.0	566.4	579.9	585.7
37.5°	522.1	525.0	538.5	552.0	558.7
40°	493.2	496.1	511.5	524.0	528.8
42.5°	466.2	470.1	482.6	494.2	499.0
45°	435.4	438.3	452.7	463.3	468.2
47.5°	407.5	410.4	422.9	433.5	436.4
50°	378.6	380.5	391.1	400.7	404.6
52.5°	349.7	350.6	360.3	369.9	372.8
55°	319.8	320.8	329.4	338.1	341.0
57.5°	291.9	291.9	299.6	306.3	309.2
60°	262.0	262.0	268.8	275.5	278.4
62.5°	234.1	234.1	240.8	245.6	249.5
65°	208.1	208.1	211.9	215.8	218.7
67.5°	183.0	180.1	184.0	188.8	187.8
70°	157.0	154.1	157.0	158.9	159.9
72.5°	131.0	129.1	131.0	132.0	133.9
75°	106.0	105.0	106.0	106.0	106.0
77.5°	84.8	81.9	83.8	82.8	81.9
80°	62.6	61.6	60.7	59.7	60.7
82.5°	43.3	42.4	42.4	40.5	40.5
85°	25.0	24.1	24.1	22.2	22.2
87.5°	9.6	9.6	8.7	8.7	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)