

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: P296499

Luminaire Tested: **22RLN-LD5-25-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296499  
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-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: 2177.0 lumens  
Efficiency: N/A  
Efficacy: 114.2 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

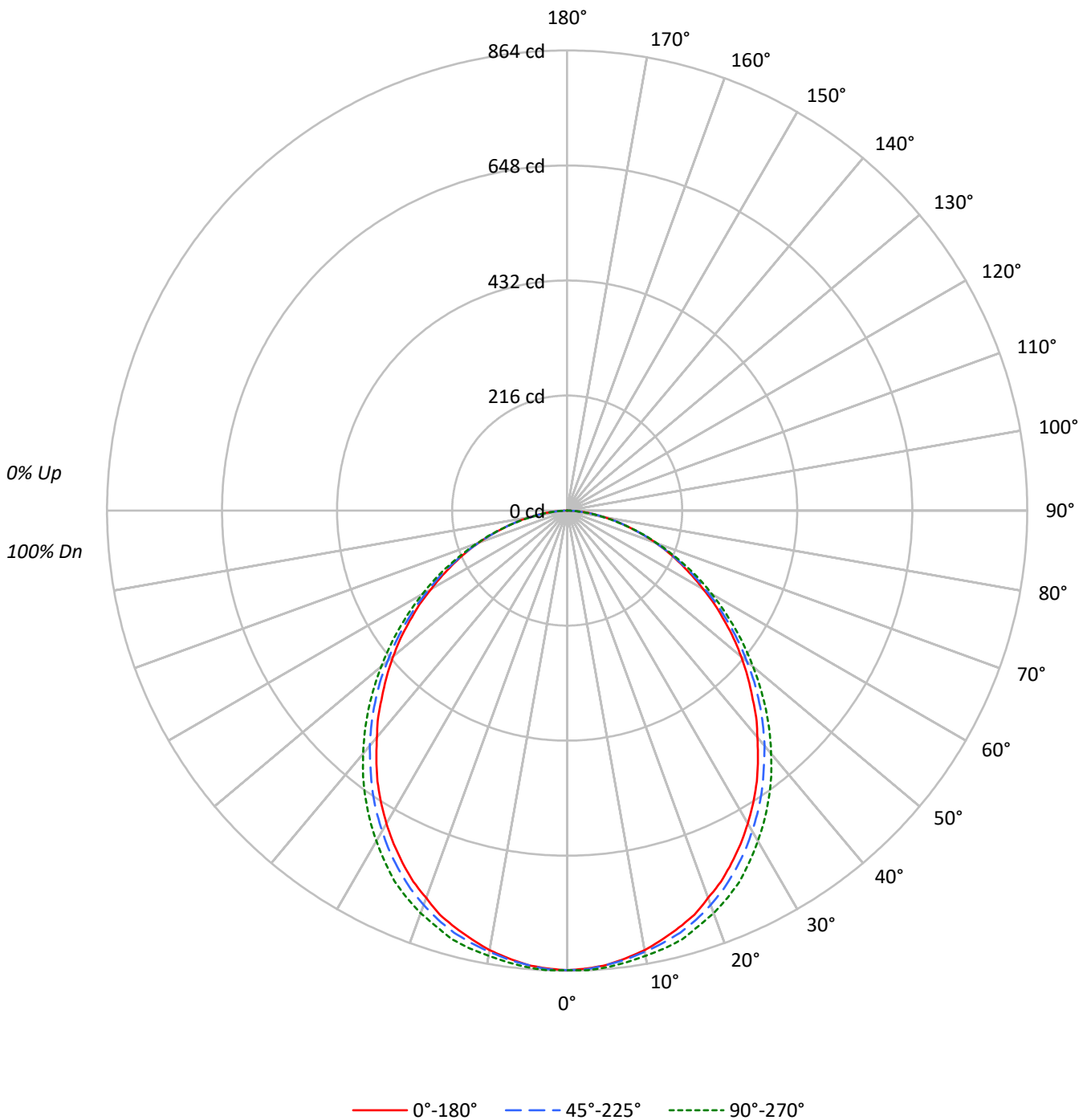
Input Watts (W): 19.065  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2322	2322	2322
5°	2313	2313	2325
10°	2290	2299	2319
15°	2259	2286	2322
20°	2216	2257	2303
25°	2169	2214	2279
30°	2108	2159	2226
35°	2040	2097	2168
40°	1952	2025	2093
45°	1867	1942	2007
50°	1786	1845	1909
55°	1691	1742	1803
60°	1589	1630	1688
65°	1493	1521	1569
70°	1392	1392	1418
75°	1241	1241	1241
80°	1094	1060	1060
85°	871	837	772



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.4	3.7
10°-20°	231.4	10.6
20°-30°	343.7	15.8
30°-40°	398.9	18.3
40°-50°	392.8	18.0
50°-60°	332.4	15.3
60°-70°	237.0	10.9
70°-80°	127.4	5.9
80°-90°	32.1	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°	656.4	30.2
0°-40°	1055.3	48.5
0°-60°	1780.5	81.8
0°-90°	2177.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2177.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	863	863	863	863	863	
5°	856	856	856	860	861	81
15°	811	813	821	828	834	229
25°	730	733	746	760	767	336
35°	621	622	638	653	660	387
45°	491	494	510	522	528	379
55°	360	361	371	381	384	323
65°	234	234	239	243	246	233
75°	119	118	119	119	119	128
85°	28	27	27	25	25	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	862.9	862.9	862.9	862.9	862.9
2.5°	860.7	860.7	861.8	862.9	864.0
5°	856.4	856.4	856.4	859.7	860.7
7.5°	847.7	848.8	849.9	853.1	855.3
10°	838.0	839.0	841.2	846.6	848.8
12.5°	824.9	828.2	831.4	839.0	842.3
15°	810.8	813.0	820.6	828.2	833.6
17.5°	795.6	796.7	805.4	816.2	818.4
20°	773.9	777.2	788.0	798.9	804.3
22.5°	754.4	756.5	768.5	782.6	786.9
25°	730.5	732.7	745.7	759.8	767.4
27.5°	705.5	707.7	721.8	737.0	742.4
30°	678.4	680.6	694.7	711.0	716.4
32.5°	650.2	652.3	667.5	681.6	689.2
35°	620.9	622.0	638.2	653.4	659.9
37.5°	588.3	591.6	606.8	622.0	629.5
40°	555.7	559.0	576.4	590.5	595.9
42.5°	525.3	529.7	543.8	556.8	562.3
45°	490.6	493.9	510.2	522.1	527.5
47.5°	459.1	462.4	476.5	488.4	491.7
50°	426.6	428.7	440.7	451.5	455.9
52.5°	394.0	395.1	406.0	416.8	420.1
55°	360.4	361.4	371.2	381.0	384.2
57.5°	328.9	328.9	337.6	345.2	348.4
60°	295.2	295.2	302.8	310.4	313.7
62.5°	263.8	263.8	271.4	276.8	281.1
65°	234.5	234.5	238.8	243.1	246.4
67.5°	206.2	203.0	207.3	212.7	211.7
70°	176.9	173.7	176.9	179.1	180.2
72.5°	147.6	145.4	147.6	148.7	150.9
75°	119.4	118.3	119.4	119.4	119.4
77.5°	95.5	92.3	94.4	93.3	92.3
80°	70.6	69.5	68.4	67.3	68.4
82.5°	48.8	47.8	47.8	45.6	45.6
85°	28.2	27.1	27.1	25.0	25.0
87.5°	10.9	10.9	9.8	9.8	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)