

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: P296671

Luminaire Tested: **22RLN-LD5-25-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296671  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060-R2)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22RLN-LD5-25-RDP-UNV-L92765-W2A1-U-5700K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1885.0 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

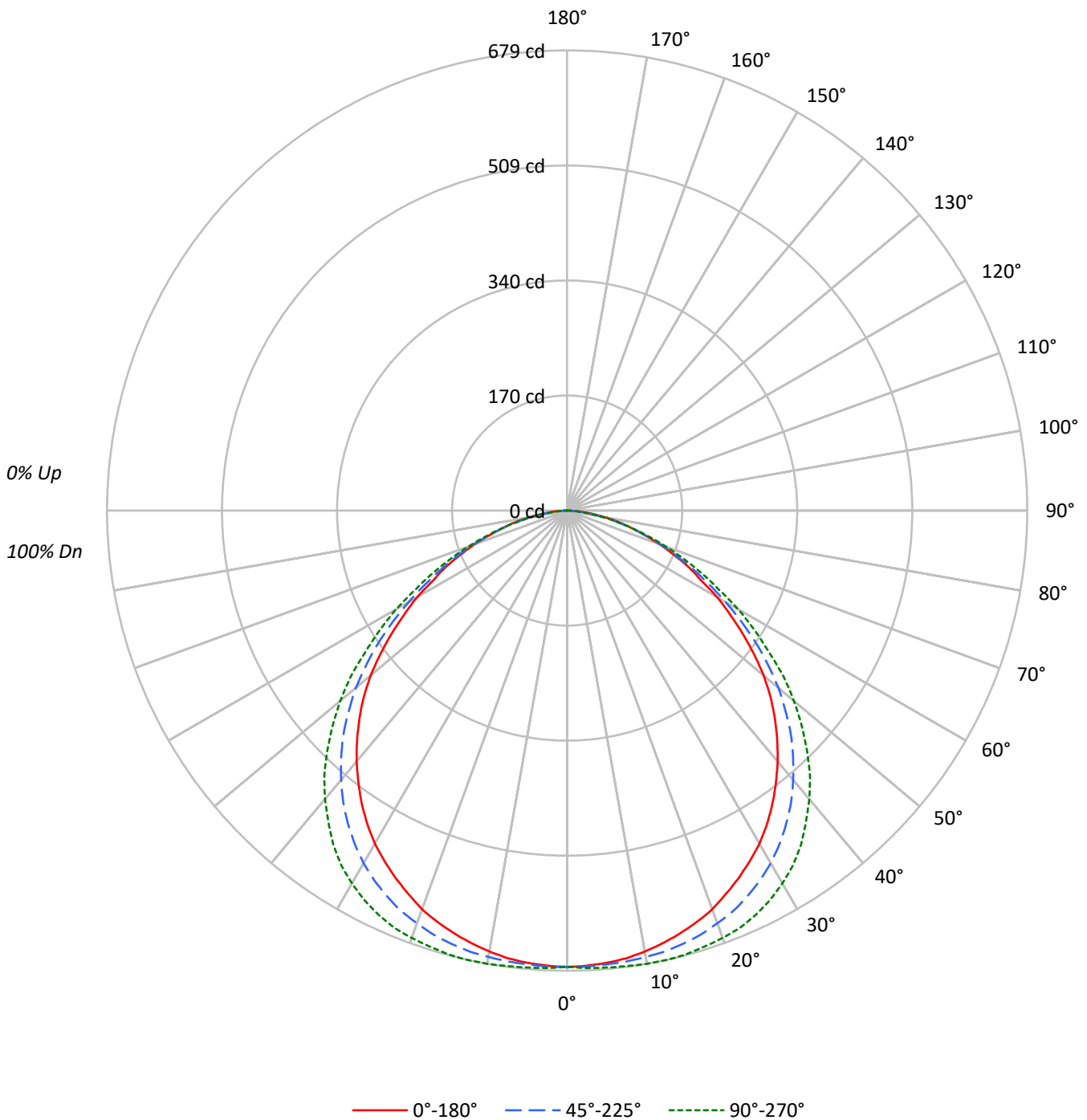
Input Watts (W): 19.437  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25					25			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1812	1812	1812
5°	1810	1816	1828
10°	1805	1827	1856
15°	1799	1844	1889
20°	1793	1856	1922
25°	1777	1866	1955
30°	1763	1867	1974
35°	1735	1852	1977
40°	1697	1822	1952
45°	1650	1777	1904
50°	1583	1704	1829
55°	1482	1596	1704
60°	1378	1452	1570
65°	1263	1307	1395
70°	1143	1161	1216
75°	1006	983	1019
80°	876	804	769
85°	713	534	463



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.1	3.4
10°-20°	187.0	9.9
20°-30°	289.7	15.4
30°-40°	352.5	18.7
40°-50°	359.0	19.0
50°-60°	302.8	16.1
60°-70°	204.8	10.9
70°-80°	102.3	5.4
80°-90°	22.8	1.2
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°	540.7	28.7
0°-40°	893.2	47.4
0°-60°	1555.1	82.5
0°-90°	1885.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1885.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	673	673	673	673	673	
5°	670	671	672	676	677	64
15°	646	650	662	673	678	182
25°	598	608	628	649	658	276
35°	528	540	564	590	602	330
45°	434	442	467	491	500	334
55°	316	320	340	356	363	283
65°	198	195	205	214	219	196
75°	97	93	94	96	98	104
85°	23	20	17	15	15	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	673.3	673.3	673.3	673.3	673.3
2.5°	672.2	672.2	673.3	674.5	675.6
5°	669.9	671.0	672.2	675.6	676.8
7.5°	666.4	667.6	671.0	675.6	677.9
10°	660.6	663.0	668.7	675.6	679.1
12.5°	653.7	657.2	666.4	674.5	679.1
15°	645.7	650.3	661.8	673.3	677.9
17.5°	636.4	642.2	656.0	668.7	674.5
20°	626.1	633.0	648.0	664.1	671.0
22.5°	612.2	621.4	639.9	658.3	666.4
25°	598.4	607.6	628.4	649.1	658.3
27.5°	583.4	593.8	615.7	638.7	648.0
30°	567.3	576.5	600.7	624.9	635.3
32.5°	548.8	558.0	583.4	608.8	620.3
35°	528.1	539.6	563.8	590.3	601.8
37.5°	506.1	516.5	543.0	568.4	578.8
40°	483.1	493.5	518.8	545.3	555.7
42.5°	458.9	469.3	493.5	518.8	530.4
45°	433.5	441.6	466.9	491.2	500.4
47.5°	407.0	412.8	437.0	460.0	469.3
50°	378.2	383.9	407.0	427.7	437.0
52.5°	347.0	351.7	373.6	392.0	402.4
55°	315.9	320.5	340.1	356.3	363.2
57.5°	284.8	287.1	304.4	320.5	327.4
60°	256.0	256.0	269.8	282.5	291.7
62.5°	222.5	226.0	236.4	249.0	252.5
65°	198.3	194.9	205.2	214.5	219.1
67.5°	170.6	168.3	175.2	183.3	185.6
70°	145.3	141.8	147.6	152.2	154.5
72.5°	118.8	117.6	119.9	123.4	124.5
75°	96.8	93.4	94.5	95.7	98.0
77.5°	77.2	71.5	72.6	71.5	72.6
80°	56.5	51.9	51.9	50.7	49.6
82.5°	38.0	35.7	33.4	31.1	30.0
85°	23.1	19.6	17.3	15.0	15.0
87.5°	9.2	6.9	5.8	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)