

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: P296658

Luminaire Tested: **22RLN-LD5-20-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296658  
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-LD5-20-RDP-UNV-L92765-W2A1-U-4000K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1437.0 lumens  
Efficiency: N/A  
Efficacy: 92.0 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

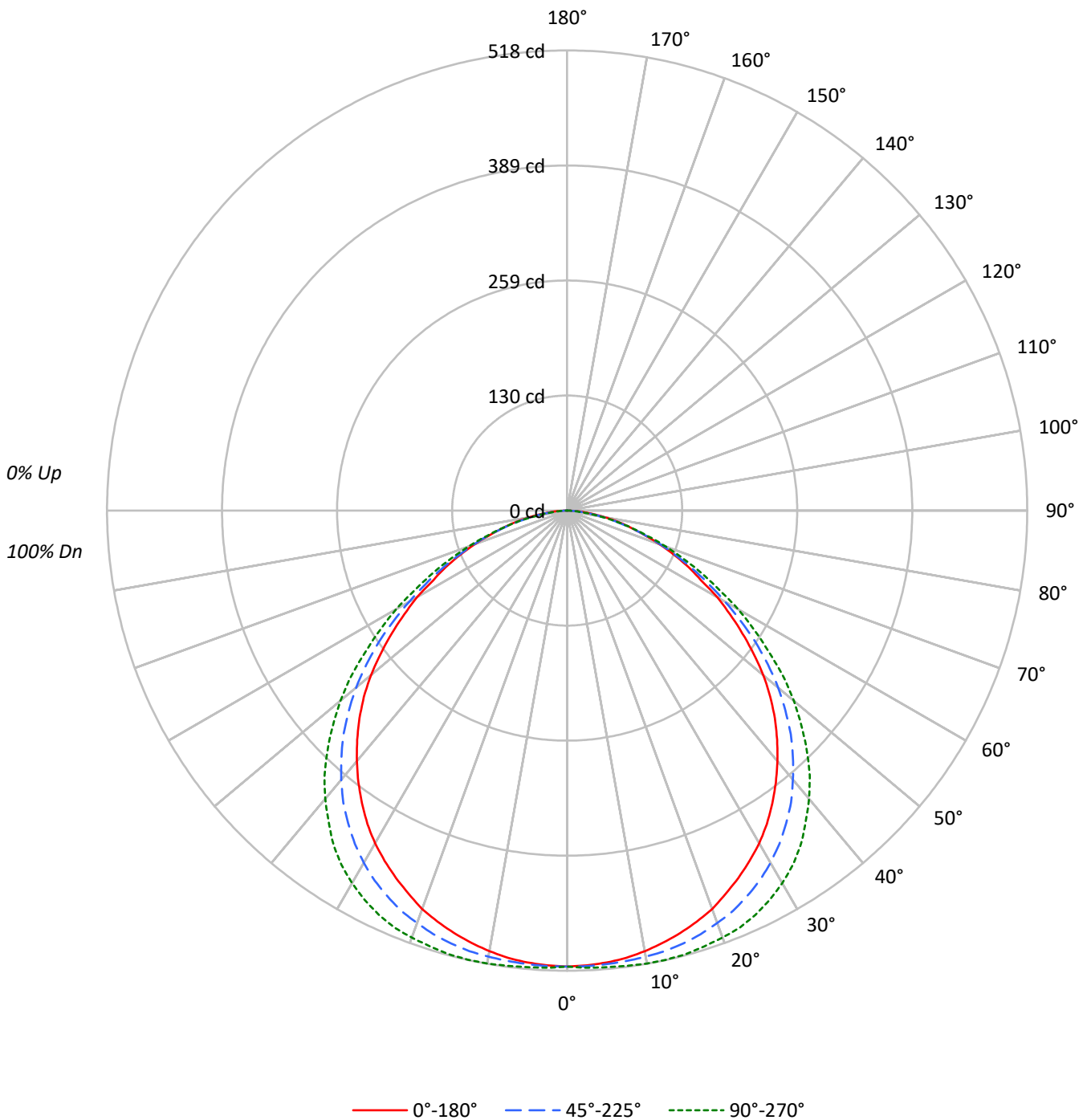
Input Watts (W): 15.624  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	1381	1381	1381
5°	1380	1384	1394
10°	1376	1393	1415
15°	1371	1405	1440
20°	1367	1415	1465
25°	1355	1422	1490
30°	1344	1423	1505
35°	1323	1412	1507
40°	1294	1389	1488
45°	1258	1355	1452
50°	1207	1299	1394
55°	1130	1217	1299
60°	1050	1107	1197
65°	963	996	1063
70°	871	885	927
75°	767	750	777
80°	668	614	586
85°	543	408	352



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.9	3.4
10°-20°	142.5	9.9
20°-30°	220.8	15.4
30°-40°	268.7	18.7
40°-50°	273.7	19.0
50°-60°	230.8	16.1
60°-70°	156.1	10.9
70°-80°	78.0	5.4
80°-90°	17.4	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°	412.2	28.7
0°-40°	681.0	47.4
0°-60°	1185.5	82.5
0°-90°	1437.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1437.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	513	513	513	513	513	
5°	511	512	512	515	516	49
15°	492	496	504	513	517	139
25°	456	463	479	495	502	210
35°	403	411	430	450	459	252
45°	330	337	356	374	382	255
55°	241	244	259	272	277	215
65°	151	148	156	164	167	149
75°	74	71	72	73	75	79
85°	18	15	13	11	11	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	513.3	513.3	513.3	513.3	513.3
2.5°	512.4	512.4	513.3	514.2	515.1
5°	510.7	511.5	512.4	515.1	515.9
7.5°	508.0	508.9	511.5	515.1	516.8
10°	503.6	505.4	509.8	515.1	517.7
12.5°	498.4	501.0	508.0	514.2	517.7
15°	492.2	495.7	504.5	513.3	516.8
17.5°	485.2	489.6	500.1	509.8	514.2
20°	477.3	482.5	494.0	506.3	511.5
22.5°	466.7	473.7	487.8	501.9	508.0
25°	456.2	463.2	479.0	494.8	501.9
27.5°	444.7	452.7	469.4	486.9	494.0
30°	432.4	439.5	457.9	476.4	484.3
32.5°	418.4	425.4	444.7	464.1	472.9
35°	402.6	411.3	429.8	450.0	458.8
37.5°	385.9	393.8	414.0	433.3	441.2
40°	368.3	376.2	395.5	415.7	423.6
42.5°	349.8	357.7	376.2	395.5	404.3
45°	330.5	336.6	356.0	374.4	381.5
47.5°	310.3	314.7	333.1	350.7	357.7
50°	288.3	292.7	310.3	326.1	333.1
52.5°	264.6	268.1	284.8	298.8	306.8
55°	240.8	244.3	259.3	271.6	276.9
57.5°	217.1	218.9	232.0	244.3	249.6
60°	195.1	195.1	205.7	215.3	222.4
62.5°	169.6	172.3	180.2	189.9	192.5
65°	151.2	148.5	156.5	163.5	167.0
67.5°	130.1	128.3	133.6	139.8	141.5
70°	110.7	108.1	112.5	116.0	117.8
72.5°	90.5	89.7	91.4	94.0	94.9
75°	73.8	71.2	72.1	73.0	74.7
77.5°	58.9	54.5	55.4	54.5	55.4
80°	43.1	39.6	39.6	38.7	37.8
82.5°	29.0	27.2	25.5	23.7	22.9
85°	17.6	14.9	13.2	11.4	11.4
87.5°	7.0	5.3	4.4	4.4	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)