

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: P296666

Luminaire Tested: **22RLN-LD5-25-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296666  
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-3500K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1710.0 lumens  
Efficiency: N/A  
Efficacy: 90.6 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

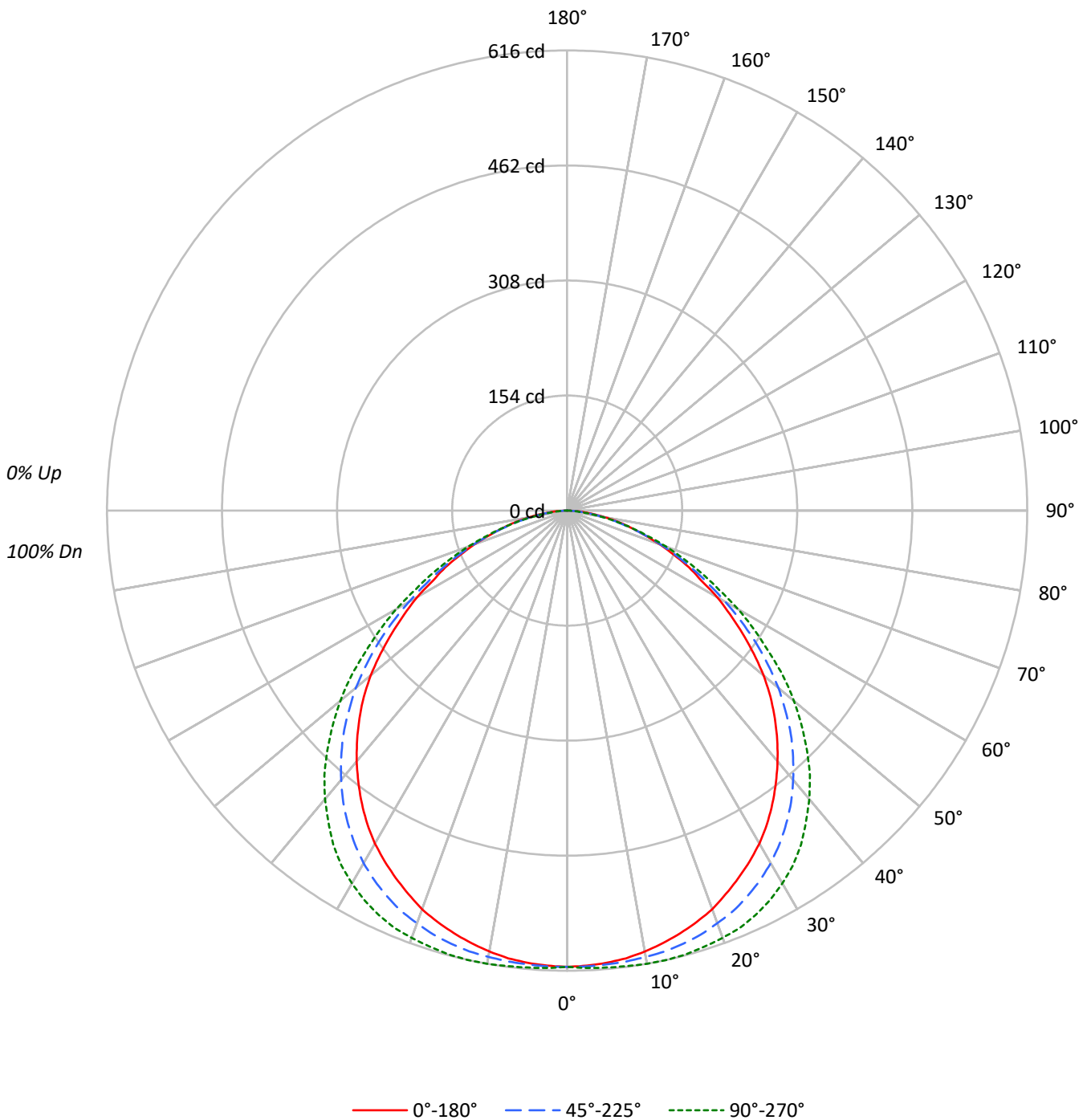
Input Watts (W): 18.879  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1644	1644	1644
5°	1642	1647	1659
10°	1638	1658	1683
15°	1632	1673	1713
20°	1626	1683	1743
25°	1612	1692	1773
30°	1599	1693	1791
35°	1574	1680	1794
40°	1539	1653	1771
45°	1497	1612	1727
50°	1436	1546	1659
55°	1345	1447	1546
60°	1250	1317	1424
65°	1145	1186	1265
70°	1037	1054	1103
75°	914	892	924
80°	795	730	697
85°	645	485	420



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.2	3.4
10°-20°	169.6	9.9
20°-30°	262.8	15.4
30°-40°	319.8	18.7
40°-50°	325.7	19.0
50°-60°	274.7	16.1
60°-70°	185.8	10.9
70°-80°	92.9	5.4
80°-90°	20.7	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°	490.5	28.7
0°-40°	810.3	47.4
0°-60°	1410.7	82.5
0°-90°	1710.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1710.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	611	611	611	611	611	
5°	608	609	610	613	614	58
15°	586	590	600	611	615	165
25°	543	551	570	589	597	250
35°	479	490	512	536	546	299
45°	393	401	424	446	454	303
55°	287	291	308	323	330	256
65°	180	177	186	194	199	178
75°	88	85	86	87	89	94
85°	21	18	16	14	14	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	610.8	610.8	610.8	610.8	610.8
2.5°	609.8	609.8	610.8	611.9	612.9
5°	607.7	608.7	609.8	612.9	614.0
7.5°	604.5	605.6	608.7	612.9	615.0
10°	599.3	601.4	606.6	612.9	616.0
12.5°	593.0	596.2	604.5	611.9	616.0
15°	585.7	589.9	600.4	610.8	615.0
17.5°	577.3	582.6	595.1	606.6	611.9
20°	567.9	574.2	587.8	602.5	608.7
22.5°	555.4	563.8	580.5	597.2	604.5
25°	542.8	551.2	570.0	588.9	597.2
27.5°	529.2	538.6	558.5	579.4	587.8
30°	514.6	523.0	544.9	566.9	576.3
32.5°	497.9	506.2	529.2	552.2	562.7
35°	479.0	489.5	511.5	535.5	546.0
37.5°	459.2	468.6	492.6	515.6	525.1
40°	438.2	447.7	470.7	494.7	504.1
42.5°	416.3	425.7	447.7	470.7	481.1
45°	393.3	400.6	423.6	445.6	453.9
47.5°	369.2	374.4	396.4	417.3	425.7
50°	343.1	348.3	369.2	388.0	396.4
52.5°	314.8	319.0	338.9	355.6	365.0
55°	286.6	290.8	308.5	323.2	329.5
57.5°	258.3	260.4	276.1	290.8	297.0
60°	232.2	232.2	244.7	256.3	264.6
62.5°	201.9	205.0	214.4	225.9	229.1
65°	179.9	176.8	186.2	194.5	198.7
67.5°	154.8	152.7	159.0	166.3	168.4
70°	131.8	128.6	133.9	138.1	140.2
72.5°	107.7	106.7	108.8	111.9	113.0
75°	87.9	84.7	85.8	86.8	88.9
77.5°	70.1	64.8	65.9	64.8	65.9
80°	51.3	47.1	47.1	46.0	45.0
82.5°	34.5	32.4	30.3	28.2	27.2
85°	20.9	17.8	15.7	13.6	13.6
87.5°	8.4	6.3	5.2	5.2	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)