

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: P296687

Luminaire Tested: **22RLN-LD5-35-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296687  
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-LD5-35-RDP-UNV-L92765-W2A1-U-5000K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2654.0 lumens  
Efficiency: N/A  
Efficacy: 93.0 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

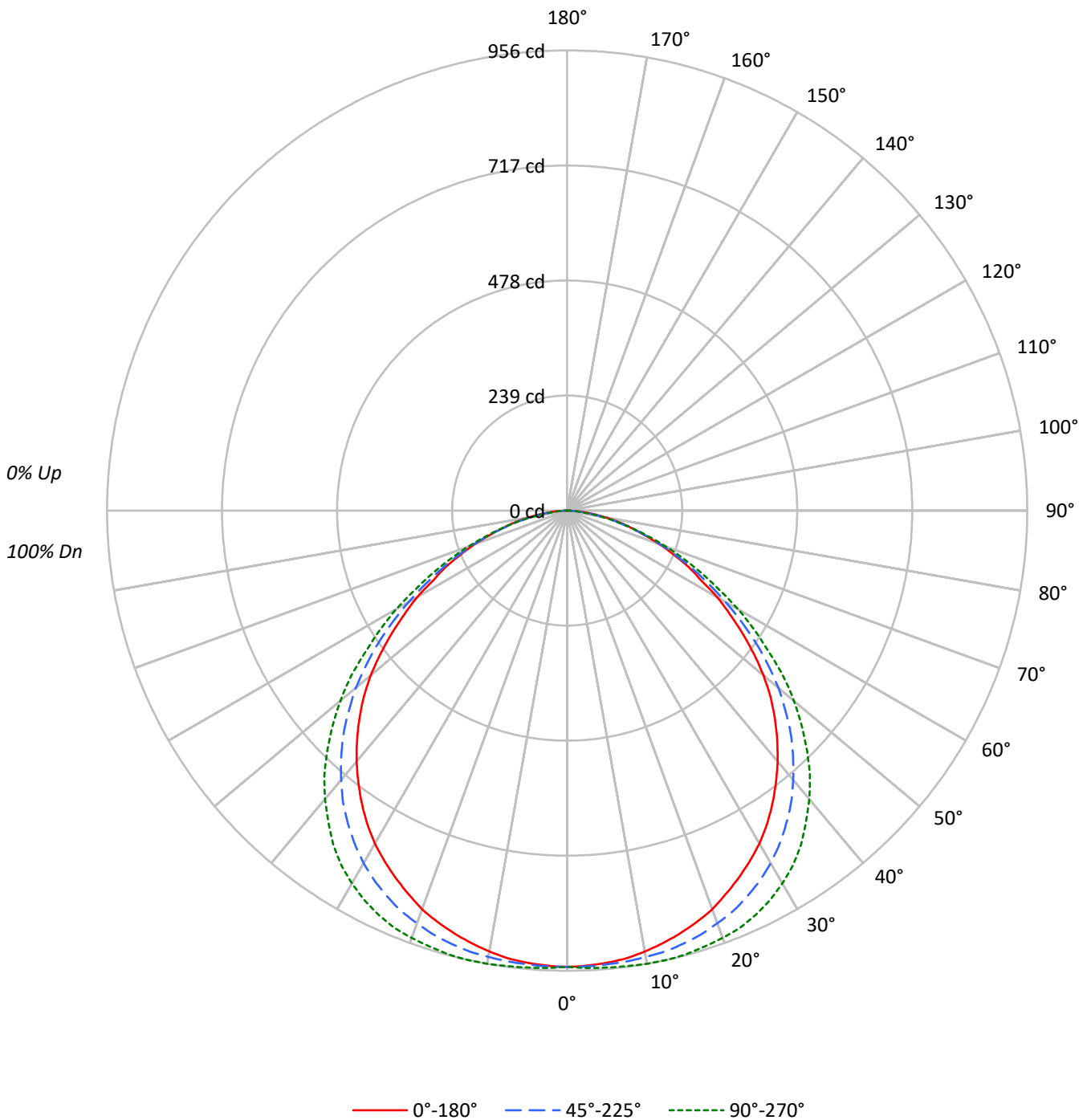
Input Watts (W): 28.551  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2551	2551	2551
5°	2548	2556	2574
10°	2542	2573	2613
15°	2533	2596	2659
20°	2524	2613	2706
25°	2502	2627	2752
30°	2482	2628	2779
35°	2442	2608	2784
40°	2389	2566	2748
45°	2323	2502	2681
50°	2229	2399	2575
55°	2087	2247	2399
60°	1940	2045	2210
65°	1778	1840	1964
70°	1609	1635	1711
75°	1418	1384	1435
80°	1232	1131	1082
85°	1003	750	651



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.3	3.4
10°-20°	263.2	9.9
20°-30°	407.8	15.4
30°-40°	496.3	18.7
40°-50°	505.5	19.0
50°-60°	426.3	16.1
60°-70°	288.4	10.9
70°-80°	144.1	5.4
80°-90°	32.0	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°	761.3	28.7
0°-40°	1257.7	47.4
0°-60°	2189.5	82.5
0°-90°	2654.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2654.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	943	945	946	951	953	90
15°	909	916	932	948	954	257
25°	842	856	885	914	927	388
35°	744	760	794	831	847	465
45°	610	622	657	692	704	470
55°	445	451	479	502	511	398
65°	279	274	289	302	308	276
75°	136	132	133	135	138	146
85°	32	28	24	21	21	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	948.0	948.0	948.0	948.0	948.0
2.5°	946.4	946.4	948.0	949.6	951.3
5°	943.1	944.8	946.4	951.3	952.9
7.5°	938.3	939.9	944.8	951.3	954.5
10°	930.2	933.4	941.5	951.3	956.1
12.5°	920.4	925.3	938.3	949.6	956.1
15°	909.1	915.6	931.8	948.0	954.5
17.5°	896.1	904.2	923.7	941.5	949.6
20°	881.5	891.2	912.3	935.0	944.8
22.5°	862.0	875.0	900.9	926.9	938.3
25°	842.5	855.5	884.7	913.9	926.9
27.5°	821.4	836.0	866.9	899.3	912.3
30°	798.7	811.7	845.7	879.8	894.4
32.5°	772.7	785.7	821.4	857.1	873.3
35°	743.5	759.7	793.8	831.1	847.4
37.5°	712.6	727.2	764.6	800.3	814.9
40°	680.2	694.8	730.5	767.8	782.4
42.5°	646.1	660.7	694.8	730.5	746.7
45°	610.4	621.7	657.4	691.5	704.5
47.5°	573.0	581.1	615.2	647.7	660.7
50°	532.4	540.6	573.0	602.3	615.2
52.5°	488.6	495.1	526.0	551.9	566.5
55°	444.8	451.3	478.9	501.6	511.3
57.5°	401.0	404.2	428.6	451.3	461.0
60°	360.4	360.4	379.9	397.7	410.7
62.5°	313.3	318.2	332.8	350.6	355.5
65°	279.2	274.3	289.0	301.9	308.4
67.5°	240.3	237.0	246.7	258.1	261.4
70°	204.5	199.7	207.8	214.3	217.5
72.5°	167.2	165.6	168.8	173.7	175.3
75°	136.4	131.5	133.1	134.7	138.0
77.5°	108.8	100.6	102.3	100.6	102.3
80°	79.5	73.0	73.0	71.4	69.8
82.5°	53.6	50.3	47.1	43.8	42.2
85°	32.5	27.6	24.3	21.1	21.1
87.5°	13.0	9.7	8.1	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)