

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: P296598

Luminaire Tested: **22RLN-LD5-35-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296598
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-L82765-W2A1-U-2700K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2634.0 lumens
Efficiency: N/A
Efficacy: 94.4 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

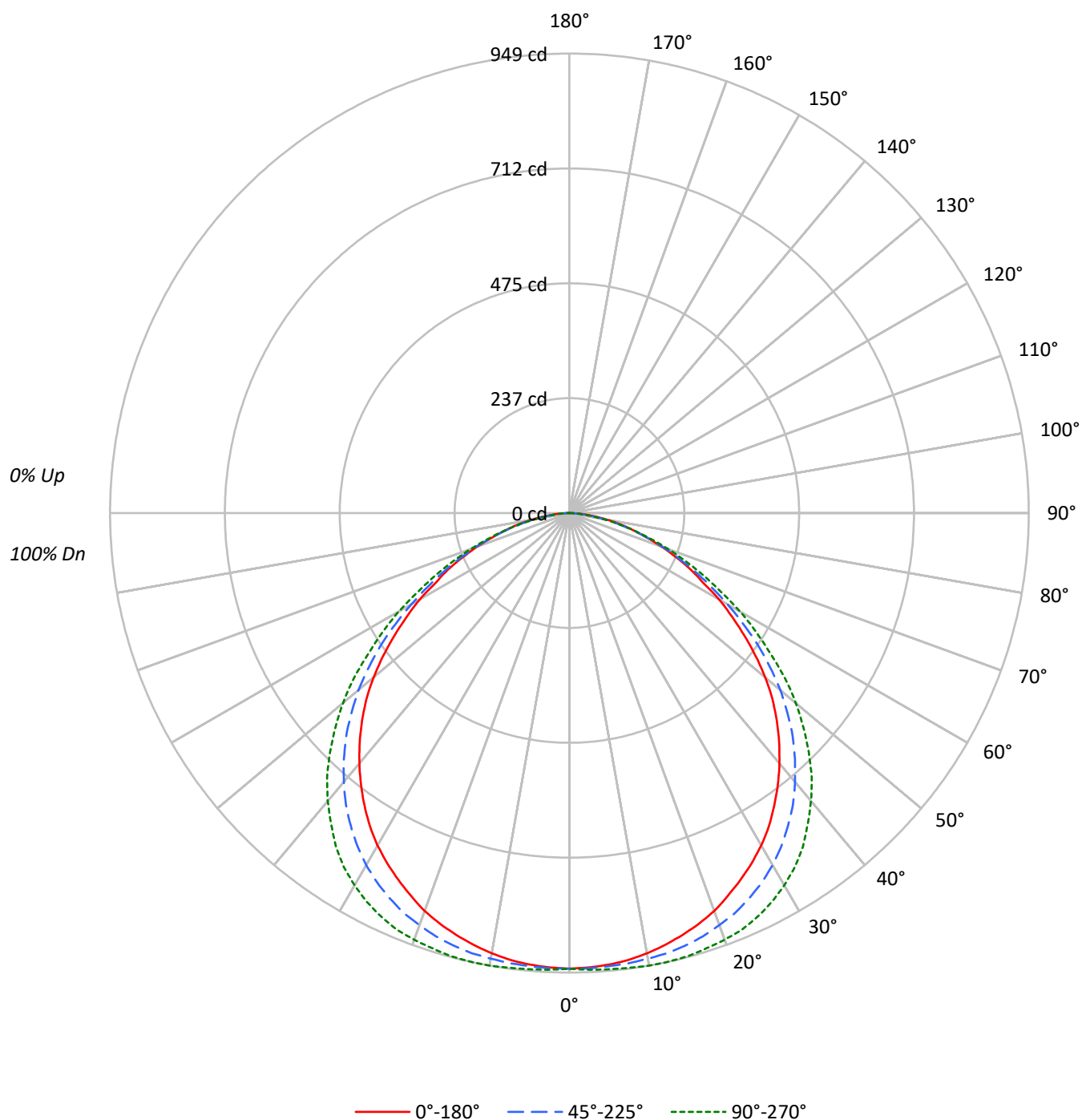
Input Watts (W): 27.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	103	99	96	98	95	93		94	92	90		91
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		47
8	61	48	40	34	60	47	39	34	46	39	33		45	38	33		44
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40
10	54	41	33	28	52	40	33	27	39	32	27		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2532	2532	2532
5°	2528	2537	2555
10°	2523	2553	2593
15°	2513	2576	2639
20°	2505	2593	2685
25°	2483	2607	2731
30°	2463	2608	2758
35°	2424	2588	2763
40°	2371	2547	2728
45°	2305	2483	2661
50°	2212	2381	2556
55°	2071	2230	2381
60°	1925	2029	2194
65°	1764	1826	1949
70°	1597	1622	1699
75°	1407	1373	1423
80°	1223	1124	1074
85°	994	747	645



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.6	3.4
10°-20°	261.2	9.9
20°-30°	404.7	15.4
30°-40°	492.6	18.7
40°-50°	501.7	19.0
50°-60°	423.1	16.1
60°-70°	286.2	10.9
70°-80°	143.0	5.4
80°-90°	31.8	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°	755.6	28.7
0°-40°	1248.2	47.4
0°-60°	2173.0	82.5
0°-90°	2634.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2634.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	941	941	941	941	941	
5°	936	938	939	944	946	89
15°	902	909	925	941	947	255
25°	836	849	878	907	920	385
35°	738	754	788	825	841	461
45°	606	617	652	686	699	466
55°	441	448	475	498	508	395
65°	277	272	287	300	306	274
75°	135	130	132	134	137	145
85°	32	27	24	21	21	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	940.9	940.9	940.9	940.9	940.9
2.5°	939.3	939.3	940.9	942.5	944.1
5°	936.0	937.7	939.3	944.1	945.7
7.5°	931.2	932.8	937.7	944.1	947.3
10°	923.2	926.4	934.4	944.1	948.9
12.5°	913.5	918.3	931.2	942.5	948.9
15°	902.2	908.7	924.8	940.9	947.3
17.5°	889.3	897.4	916.7	934.4	942.5
20°	874.8	884.5	905.4	928.0	937.7
22.5°	855.5	868.4	894.2	919.9	931.2
25°	836.2	849.0	878.0	907.0	919.9
27.5°	815.2	829.7	860.3	892.5	905.4
30°	792.7	805.5	839.4	873.2	887.7
32.5°	766.9	779.8	815.2	850.7	866.8
35°	737.9	754.0	787.8	824.9	841.0
37.5°	707.3	721.8	758.8	794.3	808.8
40°	675.0	689.5	725.0	762.0	776.5
42.5°	641.2	655.7	689.5	725.0	741.1
45°	605.8	617.0	652.5	686.3	699.2
47.5°	568.7	576.8	610.6	642.8	655.7
50°	528.4	536.5	568.7	597.7	610.6
52.5°	484.9	491.4	522.0	547.8	562.3
55°	441.4	447.9	475.3	497.8	507.5
57.5°	397.9	401.2	425.3	447.9	457.5
60°	357.7	357.7	377.0	394.7	407.6
62.5°	310.9	315.8	330.3	348.0	352.8
65°	277.1	272.3	286.8	299.7	306.1
67.5°	238.4	235.2	244.9	256.2	259.4
70°	203.0	198.2	206.2	212.7	215.9
72.5°	165.9	164.3	167.6	172.4	174.0
75°	135.3	130.5	132.1	133.7	136.9
77.5°	107.9	99.9	101.5	99.9	101.5
80°	78.9	72.5	72.5	70.9	69.3
82.5°	53.2	49.9	46.7	43.5	41.9
85°	32.2	27.4	24.2	20.9	20.9
87.5°	12.9	9.7	8.1	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)