

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: P296686

Luminaire Tested: **22RLN-LD5-35-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296686
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-4500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2601.0 lumens
Efficiency: N/A
Efficacy: 91.4 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

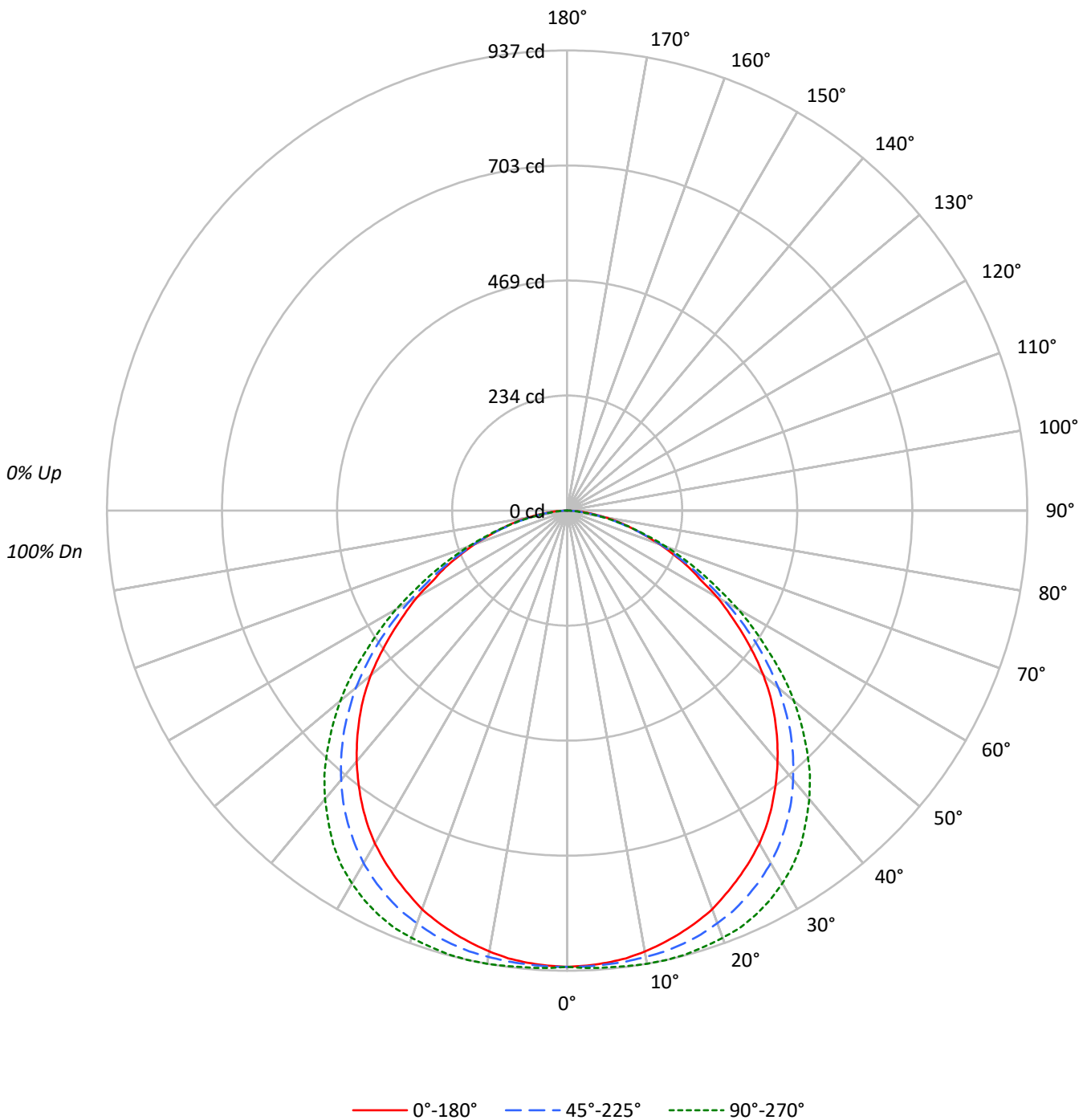
Input Watts (W): 28.458
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2500	2500	2500
5°	2497	2505	2523
10°	2491	2521	2560
15°	2482	2544	2606
20°	2474	2560	2651
25°	2452	2574	2697
30°	2432	2576	2724
35°	2394	2556	2728
40°	2342	2515	2694
45°	2277	2452	2628
50°	2184	2351	2524
55°	2045	2202	2351
60°	1901	2004	2166
65°	1742	1803	1925
70°	1578	1602	1677
75°	1389	1357	1406
80°	1209	1110	1060
85°	982	738	639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.5	3.4
10°-20°	258.0	9.9
20°-30°	399.7	15.4
30°-40°	486.4	18.7
40°-50°	495.4	19.0
50°-60°	417.8	16.1
60°-70°	282.6	10.9
70°-80°	141.2	5.4
80°-90°	31.4	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°	746.1	28.7
0°-40°	1232.5	47.4
0°-60°	2145.7	82.5
0°-90°	2601.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2601.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	929	929	929	929	929	
5°	924	926	928	932	934	88
15°	891	897	913	929	935	252
25°	826	838	867	896	908	381
35°	729	744	778	814	830	455
45°	598	609	644	678	690	461
55°	436	442	469	492	501	390
65°	274	269	283	296	302	270
75°	134	129	130	132	135	143
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°	929.1	929.1	929.1	929.1	929.1
2.5°	927.5	927.5	929.1	930.7	932.3
5°	924.3	925.9	927.5	932.3	933.9
7.5°	919.5	921.1	925.9	932.3	935.4
10°	911.6	914.8	922.7	932.3	937.0
12.5°	902.0	906.8	919.5	930.7	937.0
15°	890.9	897.3	913.2	929.1	935.4
17.5°	878.2	886.1	905.2	922.7	930.7
20°	863.9	873.4	894.1	916.4	925.9
22.5°	844.8	857.5	882.9	908.4	919.5
25°	825.7	838.4	867.0	895.7	908.4
27.5°	805.0	819.3	849.5	881.4	894.1
30°	782.7	795.5	828.9	862.3	876.6
32.5°	757.3	770.0	805.0	840.0	855.9
35°	728.6	744.5	778.0	814.5	830.5
37.5°	698.4	712.7	749.3	784.3	798.6
40°	666.6	680.9	715.9	752.5	766.8
42.5°	633.2	647.5	680.9	715.9	731.8
45°	598.2	609.3	644.3	677.7	690.5
47.5°	561.6	569.5	603.0	634.8	647.5
50°	521.8	529.8	561.6	590.2	603.0
52.5°	478.9	485.2	515.5	540.9	555.2
55°	435.9	442.3	469.3	491.6	501.1
57.5°	393.0	396.1	420.0	442.3	451.8
60°	353.2	353.2	372.3	389.8	402.5
62.5°	307.0	311.8	326.1	343.6	348.4
65°	273.6	268.9	283.2	295.9	302.3
67.5°	235.5	232.3	241.8	253.0	256.1
70°	200.5	195.7	203.6	210.0	213.2
72.5°	163.9	162.3	165.5	170.2	171.8
75°	133.6	128.9	130.5	132.0	135.2
77.5°	106.6	98.6	100.2	98.6	100.2
80°	78.0	71.6	71.6	70.0	68.4
82.5°	52.5	49.3	46.1	43.0	41.4
85°	31.8	27.0	23.9	20.7	20.7
87.5°	12.7	9.5	8.0	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)