

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: P296685

Luminaire Tested: **22RLN-LD5-35-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296685
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-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: 2536.0 lumens
Efficiency: N/A
Efficacy: 89.7 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

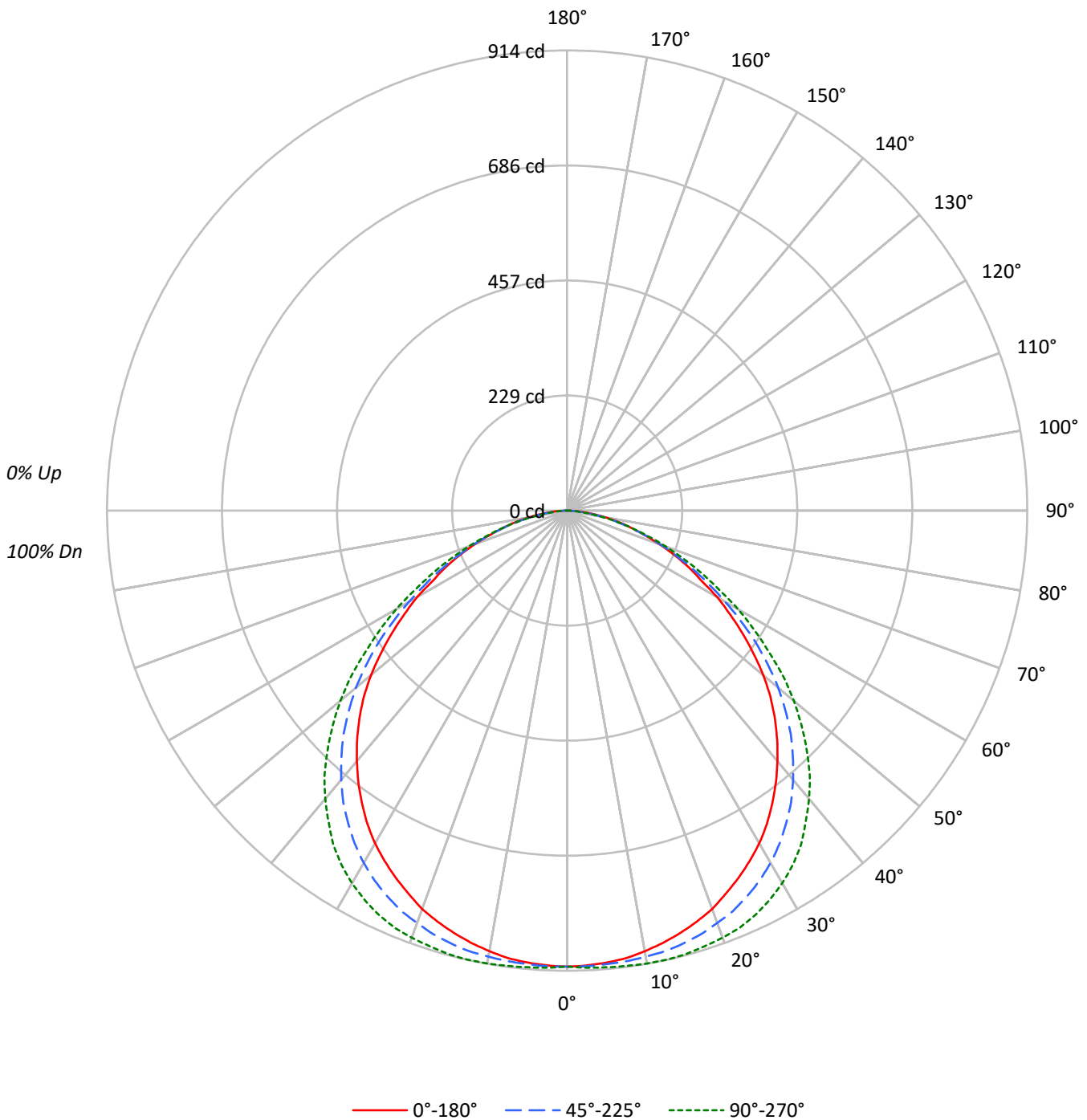
Input Watts (W): 28.272
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2438	2438	2438
5°	2434	2443	2459
10°	2429	2458	2496
15°	2420	2481	2541
20°	2412	2496	2585
25°	2390	2510	2630
30°	2371	2511	2656
35°	2334	2492	2660
40°	2283	2452	2627
45°	2219	2391	2562
50°	2130	2292	2461
55°	1994	2147	2292
60°	1854	1954	2112
65°	1699	1758	1876
70°	1537	1562	1636
75°	1355	1323	1370
80°	1178	1082	1034
85°	957	719	624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.3	3.4
10°-20°	251.5	9.9
20°-30°	389.7	15.4
30°-40°	474.3	18.7
40°-50°	483.0	19.0
50°-60°	407.3	16.1
60°-70°	275.5	10.9
70°-80°	137.7	5.4
80°-90°	30.7	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°	727.5	28.7
0°-40°	1201.7	47.4
0°-60°	2092.1	82.5
0°-90°	2536.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2536.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	906	906	906	906	906	
5°	901	903	904	909	910	86
15°	869	875	890	906	912	245
25°	805	818	845	873	886	371
35°	710	726	758	794	810	444
45°	583	594	628	661	673	449
55°	425	431	458	479	489	380
65°	267	262	276	288	295	264
75°	130	126	127	129	132	140
85°	31	26	23	20	20	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	905.9	905.9	905.9	905.9	905.9
2.5°	904.3	904.3	905.9	907.4	909.0
5°	901.2	902.8	904.3	909.0	910.5
7.5°	896.6	898.1	902.8	909.0	912.1
10°	888.8	891.9	899.7	909.0	913.6
12.5°	879.5	884.2	896.6	907.4	913.6
15°	868.6	874.8	890.4	905.9	912.1
17.5°	856.2	864.0	882.6	899.7	907.4
20°	842.3	851.6	871.7	893.5	902.8
22.5°	823.7	836.1	860.9	885.7	896.6
25°	805.0	817.5	845.4	873.3	885.7
27.5°	784.9	798.8	828.3	859.3	871.7
30°	763.2	775.6	808.1	840.7	854.7
32.5°	738.3	750.8	784.9	819.0	834.5
35°	710.4	725.9	758.5	794.2	809.7
37.5°	681.0	694.9	730.6	764.7	778.7
40°	649.9	663.9	698.0	733.7	747.7
42.5°	617.4	631.3	663.9	698.0	713.5
45°	583.2	594.1	628.2	660.8	673.2
47.5°	547.6	555.3	587.9	618.9	631.3
50°	508.8	516.5	547.6	575.5	587.9
52.5°	466.9	473.1	502.6	527.4	541.3
55°	425.0	431.2	457.6	479.3	488.6
57.5°	383.1	386.2	409.5	431.2	440.5
60°	344.4	344.4	363.0	380.0	392.4
62.5°	299.4	304.0	318.0	335.0	339.7
65°	266.8	262.1	276.1	288.5	294.7
67.5°	229.6	226.5	235.8	246.6	249.7
70°	195.4	190.8	198.5	204.8	207.9
72.5°	159.8	158.2	161.3	166.0	167.5
75°	130.3	125.6	127.2	128.7	131.8
77.5°	103.9	96.2	97.7	96.2	97.7
80°	76.0	69.8	69.8	68.3	66.7
82.5°	51.2	48.1	45.0	41.9	40.3
85°	31.0	26.4	23.3	20.2	20.2
87.5°	12.4	9.3	7.8	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)