

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: P296689

Luminaire Tested: **22RLN-LD5-35-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296689
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-5700K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2707.0 lumens
Efficiency: N/A
Efficacy: 94.2 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

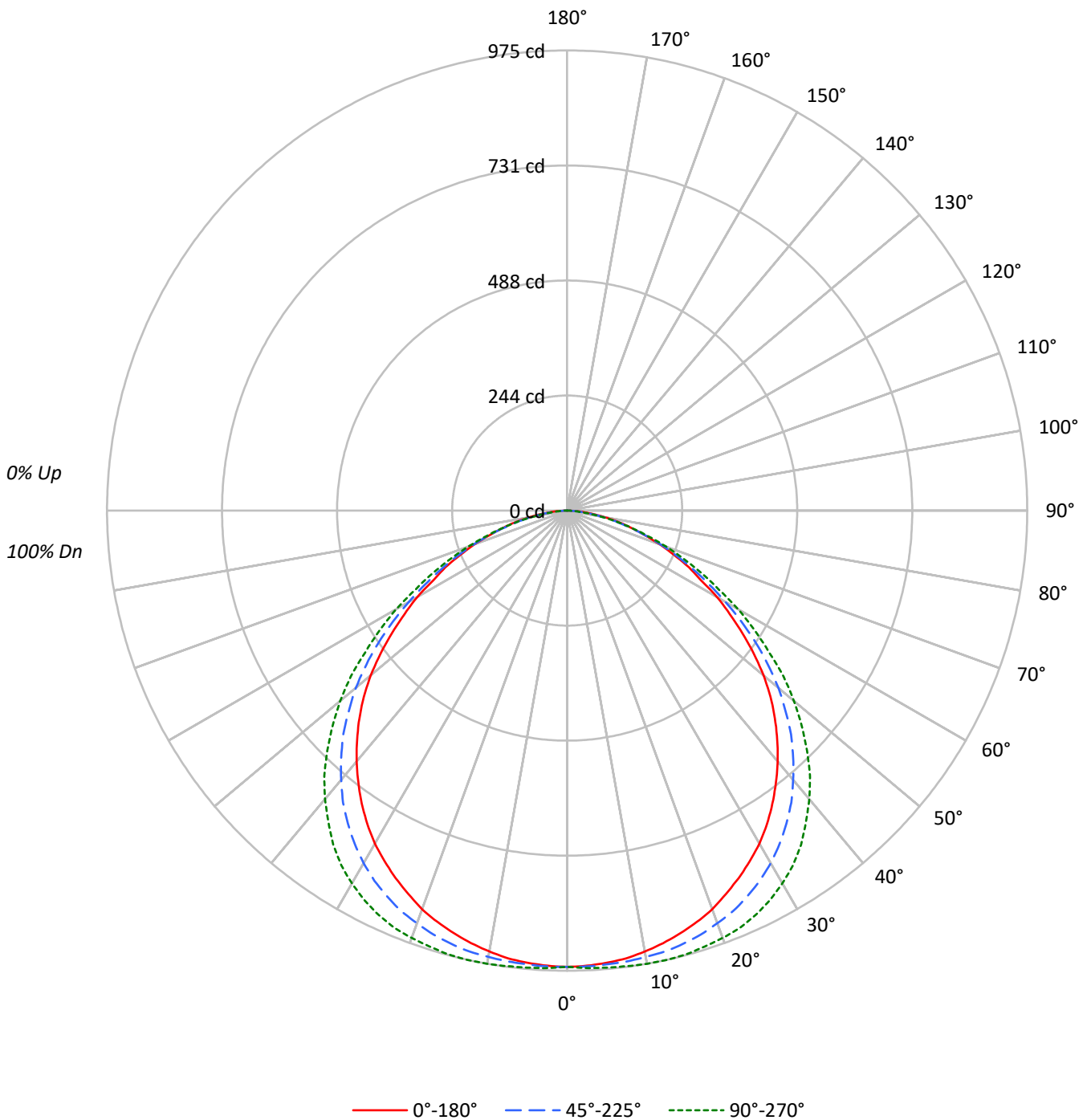
Input Watts (W): 28.737
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2602	2602	2602
5°	2599	2608	2625
10°	2592	2624	2665
15°	2583	2648	2712
20°	2575	2665	2759
25°	2551	2679	2807
30°	2531	2680	2835
35°	2491	2660	2839
40°	2437	2617	2804
45°	2369	2552	2735
50°	2274	2447	2627
55°	2129	2291	2447
60°	1978	2085	2255
65°	1813	1876	2003
70°	1641	1667	1746
75°	1446	1412	1463
80°	1257	1155	1103
85°	1022	766	664



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	3.4
10°-20°	268.5	9.9
20°-30°	416.0	15.4
30°-40°	506.3	18.7
40°-50°	515.6	19.0
50°-60°	434.8	16.1
60°-70°	294.1	10.9
70°-80°	147.0	5.4
80°-90°	32.7	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°	776.5	28.7
0°-40°	1282.8	47.4
0°-60°	2233.2	82.5
0°-90°	2707.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2707.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	967	967	967	967	967	
5°	962	964	965	970	972	91
15°	927	934	950	967	974	262
25°	859	873	902	932	945	396
35°	758	775	810	848	864	474
45°	623	634	671	705	719	479
55°	454	460	488	512	522	406
65°	285	280	295	308	315	281
75°	139	134	136	137	141	149
85°	33	28	25	22	22	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	966.9	966.9	966.9	966.9	966.9
2.5°	965.3	965.3	966.9	968.6	970.3
5°	962.0	963.6	965.3	970.3	971.9
7.5°	957.0	958.7	963.6	970.3	973.6
10°	948.7	952.0	960.3	970.3	975.2
12.5°	938.8	943.8	957.0	968.6	975.2
15°	927.2	933.8	950.4	966.9	973.6
17.5°	914.0	922.2	942.1	960.3	968.6
20°	899.1	909.0	930.5	953.7	963.6
22.5°	879.2	892.4	918.9	945.4	957.0
25°	859.3	872.6	902.4	932.2	945.4
27.5°	837.8	852.7	884.2	917.3	930.5
30°	814.6	827.9	862.6	897.4	912.3
32.5°	788.1	801.4	837.8	874.2	890.8
35°	758.3	774.9	809.7	847.7	864.3
37.5°	726.9	741.8	779.9	816.3	831.2
40°	693.8	708.7	745.1	783.2	798.1
42.5°	659.0	673.9	708.7	745.1	761.6
45°	622.6	634.1	670.6	705.3	718.6
47.5°	584.5	592.8	627.5	660.6	673.9
50°	543.1	551.4	584.5	614.3	627.5
52.5°	498.4	505.0	536.5	563.0	577.9
55°	453.7	460.3	488.4	511.6	521.6
57.5°	409.0	412.3	437.1	460.3	470.2
60°	367.6	367.6	387.4	405.7	418.9
62.5°	319.6	324.5	339.4	357.6	362.6
65°	284.8	279.8	294.7	308.0	314.6
67.5°	245.0	241.7	251.7	263.3	266.6
70°	208.6	203.7	211.9	218.6	221.9
72.5°	170.5	168.9	172.2	177.2	178.8
75°	139.1	134.1	135.8	137.4	140.7
77.5°	110.9	102.7	104.3	102.7	104.3
80°	81.1	74.5	74.5	72.9	71.2
82.5°	54.6	51.3	48.0	44.7	43.0
85°	33.1	28.1	24.8	21.5	21.5
87.5°	13.2	9.9	8.3	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)