

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: P296606

Luminaire Tested: **22RLN-LD5-35-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296606
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-6500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3001.0 lumens
Efficiency: N/A
Efficacy: 103.1 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

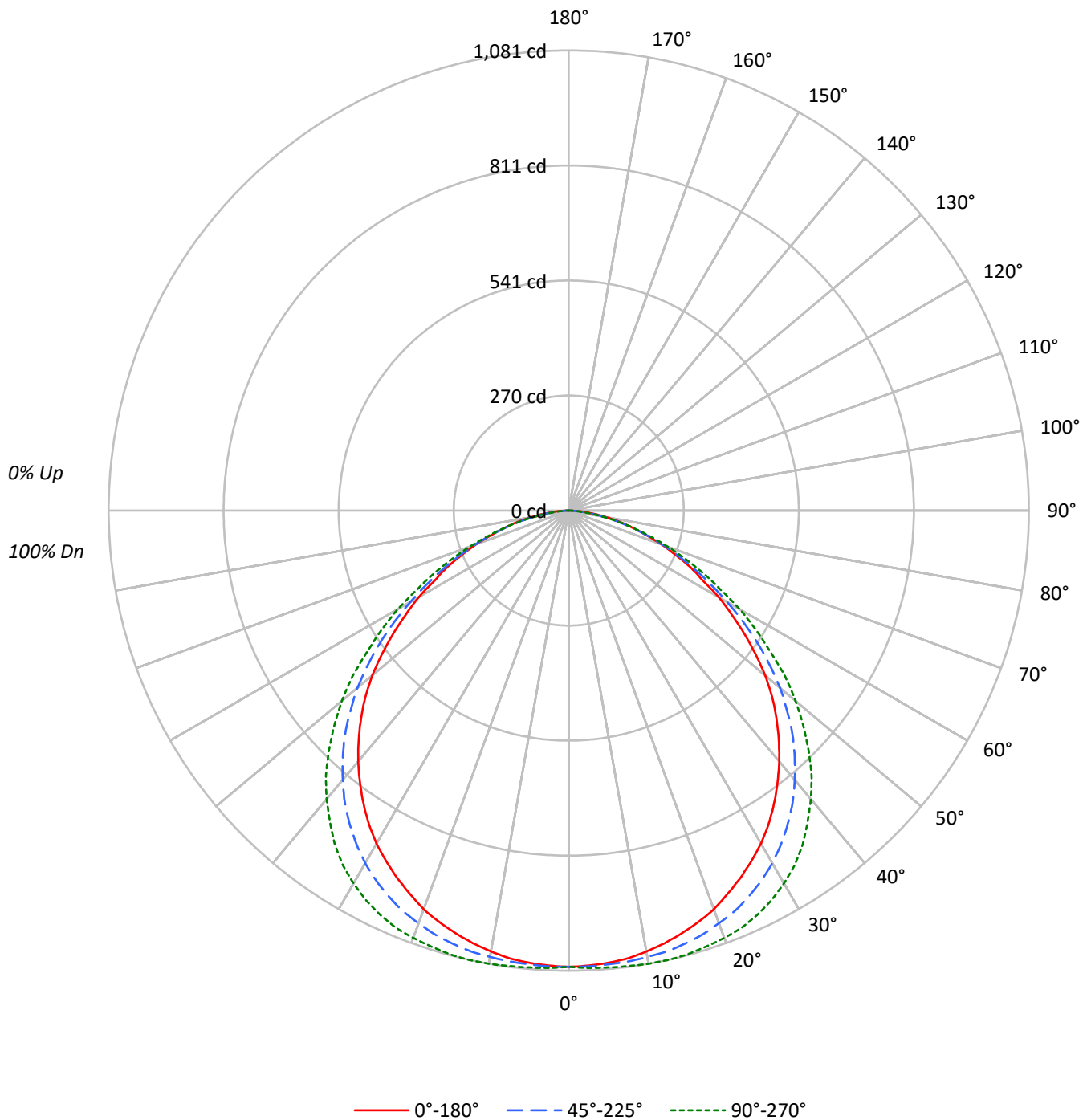
Input Watts (W): 29.109
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2885	2885	2885
5°	2881	2891	2911
10°	2874	2909	2954
15°	2864	2935	3007
20°	2854	2954	3059
25°	2829	2970	3112
30°	2806	2971	3143
35°	2762	2949	3148
40°	2702	2902	3108
45°	2627	2829	3032
50°	2521	2713	2912
55°	2359	2540	2713
60°	2193	2312	2499
65°	2010	2080	2221
70°	1820	1849	1936
75°	1603	1565	1622
80°	1393	1280	1223
85°	1133	849	738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.1	3.4
10°-20°	297.6	9.9
20°-30°	461.1	15.4
30°-40°	561.2	18.7
40°-50°	571.6	19.0
50°-60°	482.0	16.1
60°-70°	326.1	10.9
70°-80°	162.9	5.4
80°-90°	36.3	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°	860.9	28.7
0°-40°	1422.1	47.4
0°-60°	2475.7	82.5
0°-90°	3001.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3001.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1072	1072	1072	1072	1072	
5°	1066	1068	1070	1076	1078	101
15°	1028	1035	1054	1072	1079	290
25°	953	967	1000	1033	1048	439
35°	841	859	898	940	958	525
45°	690	703	743	782	797	532
55°	503	510	542	567	578	450
65°	316	310	327	341	349	312
75°	154	149	150	152	156	165
85°	37	31	28	24	24	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1072.0	1072.0	1072.0	1072.0	1072.0
2.5°	1070.1	1070.1	1072.0	1073.8	1075.6
5°	1066.5	1068.3	1070.1	1075.6	1077.5
7.5°	1061.0	1062.8	1068.3	1075.6	1079.3
10°	1051.8	1055.4	1064.6	1075.6	1081.1
12.5°	1040.8	1046.3	1061.0	1073.8	1081.1
15°	1027.9	1035.3	1053.6	1072.0	1079.3
17.5°	1013.2	1022.4	1044.4	1064.6	1073.8
20°	996.7	1007.7	1031.6	1057.3	1068.3
22.5°	974.7	989.4	1018.7	1048.1	1061.0
25°	952.7	967.3	1000.4	1033.4	1048.1
27.5°	928.8	945.3	980.2	1016.9	1031.6
30°	903.1	917.8	956.3	994.9	1011.4
32.5°	873.7	888.4	928.8	969.2	987.5
35°	840.7	859.0	897.6	939.8	958.2
37.5°	805.8	822.3	864.5	904.9	921.5
40°	769.1	785.6	826.0	868.2	884.7
42.5°	730.6	747.1	785.6	826.0	844.4
45°	690.2	703.0	743.4	781.9	796.6
47.5°	648.0	657.1	695.7	732.4	747.1
50°	602.1	611.2	648.0	681.0	695.7
52.5°	552.5	559.8	594.7	624.1	640.6
55°	502.9	510.3	541.5	567.2	578.2
57.5°	453.4	457.1	484.6	510.3	521.3
60°	407.5	407.5	429.5	449.7	464.4
62.5°	354.3	359.8	376.3	396.5	402.0
65°	315.7	310.2	326.7	341.4	348.8
67.5°	271.7	268.0	279.0	291.9	295.5
70°	231.3	225.8	235.0	242.3	246.0
72.5°	189.1	187.2	190.9	196.4	198.2
75°	154.2	148.7	150.5	152.4	156.0
77.5°	123.0	113.8	115.6	113.8	115.6
80°	89.9	82.6	82.6	80.8	78.9
82.5°	60.6	56.9	53.2	49.6	47.7
85°	36.7	31.2	27.5	23.9	23.9
87.5°	14.7	11.0	9.2	9.2	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)