

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: P296696

Luminaire Tested: **22RLN-LD5-40-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296696
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-LD5-40-RDP-UNV-L92765-W2A1-U-5000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3002.0 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

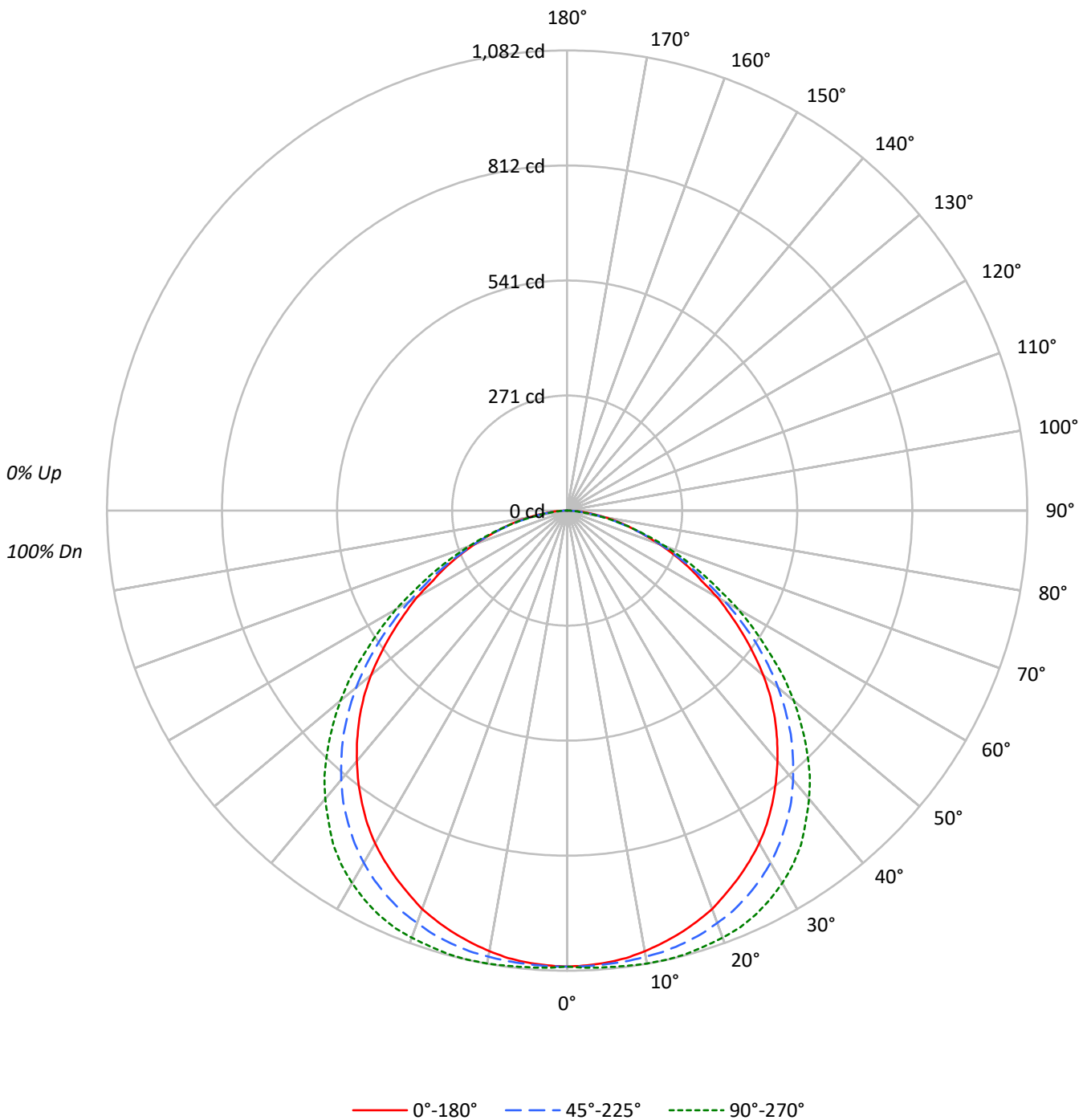
Input Watts (W): 32.829
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2886	2886	2886
5°	2882	2892	2911
10°	2875	2910	2955
15°	2865	2936	3008
20°	2855	2955	3060
25°	2830	2971	3113
30°	2807	2972	3144
35°	2763	2950	3149
40°	2703	2903	3109
45°	2627	2830	3033
50°	2521	2714	2913
55°	2360	2541	2714
60°	2194	2313	2500
65°	2011	2081	2222
70°	1821	1849	1936
75°	1603	1566	1623
80°	1395	1280	1224
85°	1133	849	738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.1	3.4
10°-20°	297.7	9.9
20°-30°	461.3	15.4
30°-40°	561.4	18.7
40°-50°	571.8	19.0
50°-60°	482.2	16.1
60°-70°	326.2	10.9
70°-80°	163.0	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°	861.2	28.7
0°-40°	1422.6	47.4
0°-60°	2476.5	82.5
0°-90°	3002.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3002.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1072	1072	1072	1072	1072	
5°	1067	1069	1070	1076	1078	101
15°	1028	1036	1054	1072	1080	290
25°	953	968	1001	1034	1048	439
35°	841	859	898	940	958	526
45°	690	703	744	782	797	532
55°	503	510	542	567	578	450
65°	316	310	327	342	349	312
75°	154	149	151	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°	1072.3	1072.3	1072.3	1072.3	1072.3
2.5°	1070.5	1070.5	1072.3	1074.2	1076.0
5°	1066.8	1068.7	1070.5	1076.0	1077.8
7.5°	1061.3	1063.1	1068.7	1076.0	1079.7
10°	1052.1	1055.8	1065.0	1076.0	1081.5
12.5°	1041.1	1046.6	1061.3	1074.2	1081.5
15°	1028.3	1035.6	1054.0	1072.3	1079.7
17.5°	1013.6	1022.7	1044.8	1065.0	1074.2
20°	997.0	1008.1	1031.9	1057.6	1068.7
22.5°	975.0	989.7	1019.1	1048.5	1061.3
25°	953.0	967.7	1000.7	1033.8	1048.5
27.5°	929.1	945.6	980.5	1017.2	1031.9
30°	903.4	918.1	956.6	995.2	1011.7
32.5°	874.0	888.7	929.1	969.5	987.9
35°	841.0	859.3	897.9	940.1	958.5
37.5°	806.1	822.6	864.8	905.2	921.8
40°	769.4	785.9	826.3	868.5	885.0
42.5°	730.8	747.3	785.9	826.3	844.6
45°	690.4	703.3	743.6	782.2	796.9
47.5°	648.2	657.3	695.9	732.6	747.3
50°	602.3	611.4	648.2	681.2	695.9
52.5°	552.7	560.0	594.9	624.3	640.8
55°	503.1	510.5	541.7	567.4	578.4
57.5°	453.5	457.2	484.7	510.5	521.5
60°	407.6	407.6	429.7	449.9	464.6
62.5°	354.4	359.9	376.4	396.6	402.1
65°	315.8	310.3	326.8	341.5	348.9
67.5°	271.8	268.1	279.1	292.0	295.6
70°	231.4	225.8	235.0	242.4	246.0
72.5°	189.1	187.3	191.0	196.5	198.3
75°	154.2	148.7	150.6	152.4	156.1
77.5°	123.0	113.8	115.7	113.8	115.7
80°	90.0	82.6	82.6	80.8	79.0
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)