

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: P296508

Luminaire Tested: **22RLN-LD5-31-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296508
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-31-UNV-L92765-W2A1-U-4000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2778.0 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

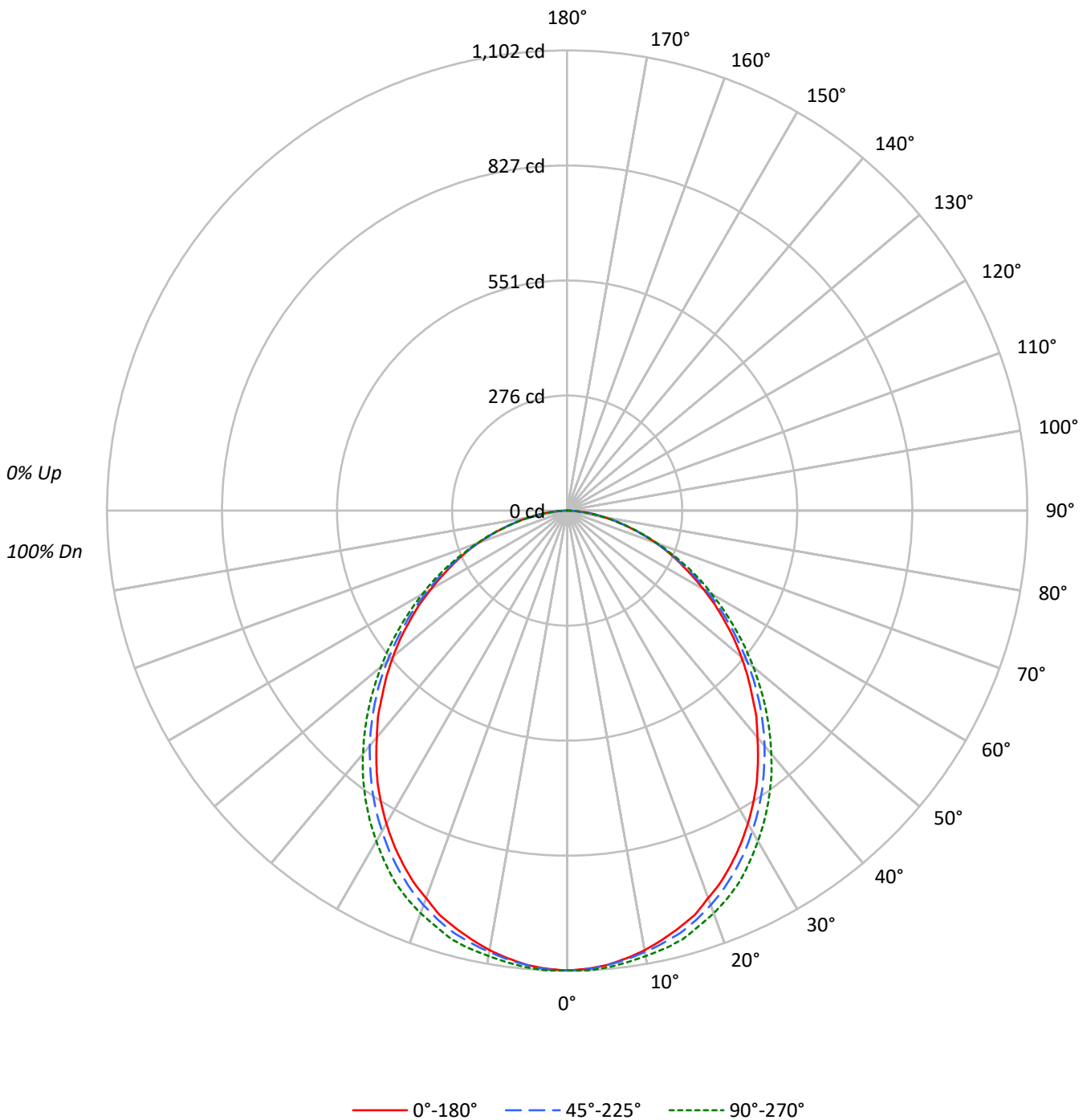
Input Watts (W): 24.738
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46					46			
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40					40			
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36					36			
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29					29			
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2963	2963	2963
5°	2952	2952	2967
10°	2922	2933	2960
15°	2883	2917	2963
20°	2828	2880	2939
25°	2768	2825	2908
30°	2690	2755	2841
35°	2603	2675	2766
40°	2491	2584	2671
45°	2383	2477	2562
50°	2279	2354	2435
55°	2157	2222	2300
60°	2027	2080	2154
65°	1905	1940	2002
70°	1777	1777	1809
75°	1585	1585	1585
80°	1395	1353	1353
85°	1112	1068	985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.8	3.7
10°-20°	295.2	10.6
20°-30°	438.6	15.8
30°-40°	509.0	18.3
40°-50°	501.2	18.0
50°-60°	424.1	15.3
60°-70°	302.5	10.9
70°-80°	162.6	5.9
80°-90°	41.0	1.5
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°	837.7	30.2
0°-40°	1346.7	48.5
0°-60°	2272.0	81.8
0°-90°	2778.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2778.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1101	1101	1101	1101	1101	
5°	1093	1093	1093	1097	1098	104
15°	1035	1037	1047	1057	1064	292
25°	932	935	952	970	979	429
35°	792	794	814	834	842	494
45°	626	630	651	666	673	484
55°	460	461	474	486	490	412
65°	299	299	305	310	314	297
75°	152	151	152	152	152	164
85°	36	35	35	32	32	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1101.1	1101.1	1101.1	1101.1	1101.1
2.5°	1098.4	1098.4	1099.8	1101.1	1102.5
5°	1092.8	1092.8	1092.8	1097.0	1098.4
7.5°	1081.7	1083.1	1084.5	1088.7	1091.4
10°	1069.3	1070.7	1073.4	1080.4	1083.1
12.5°	1052.7	1056.8	1061.0	1070.7	1074.8
15°	1034.7	1037.4	1047.1	1056.8	1063.7
17.5°	1015.3	1016.6	1027.7	1041.6	1044.4
20°	987.6	991.7	1005.6	1019.4	1026.3
22.5°	962.6	965.4	980.6	998.6	1004.2
25°	932.2	934.9	951.5	969.6	979.3
27.5°	900.3	903.1	921.1	940.5	947.4
30°	865.7	868.4	886.5	907.2	914.2
32.5°	829.7	832.4	851.8	869.8	879.5
35°	792.3	793.7	814.4	833.8	842.1
37.5°	750.7	754.9	774.3	793.7	803.3
40°	709.2	713.3	735.5	753.5	760.4
42.5°	670.4	675.9	693.9	710.5	717.5
45°	626.1	630.2	651.0	666.2	673.1
47.5°	585.9	590.0	608.1	623.3	627.4
50°	544.3	547.1	562.3	576.2	581.7
52.5°	502.8	504.2	518.0	531.9	536.0
55°	459.8	461.2	473.7	486.2	490.3
57.5°	419.7	419.7	430.8	440.5	444.6
60°	376.7	376.7	386.4	396.1	400.3
62.5°	336.6	336.6	346.3	353.2	358.7
65°	299.2	299.2	304.7	310.3	314.4
67.5°	263.2	259.0	264.6	271.5	270.1
70°	225.8	221.6	225.8	228.5	229.9
72.5°	188.4	185.6	188.4	189.8	192.5
75°	152.4	151.0	152.4	152.4	152.4
77.5°	121.9	117.7	120.5	119.1	117.7
80°	90.0	88.6	87.3	85.9	87.3
82.5°	62.3	60.9	60.9	58.2	58.2
85°	36.0	34.6	34.6	31.9	31.9
87.5°	13.9	13.9	12.5	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)