

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: P295864

Luminaire Tested: **24RLN-LD5-31-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-31-UNV-L82765-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2927.0 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

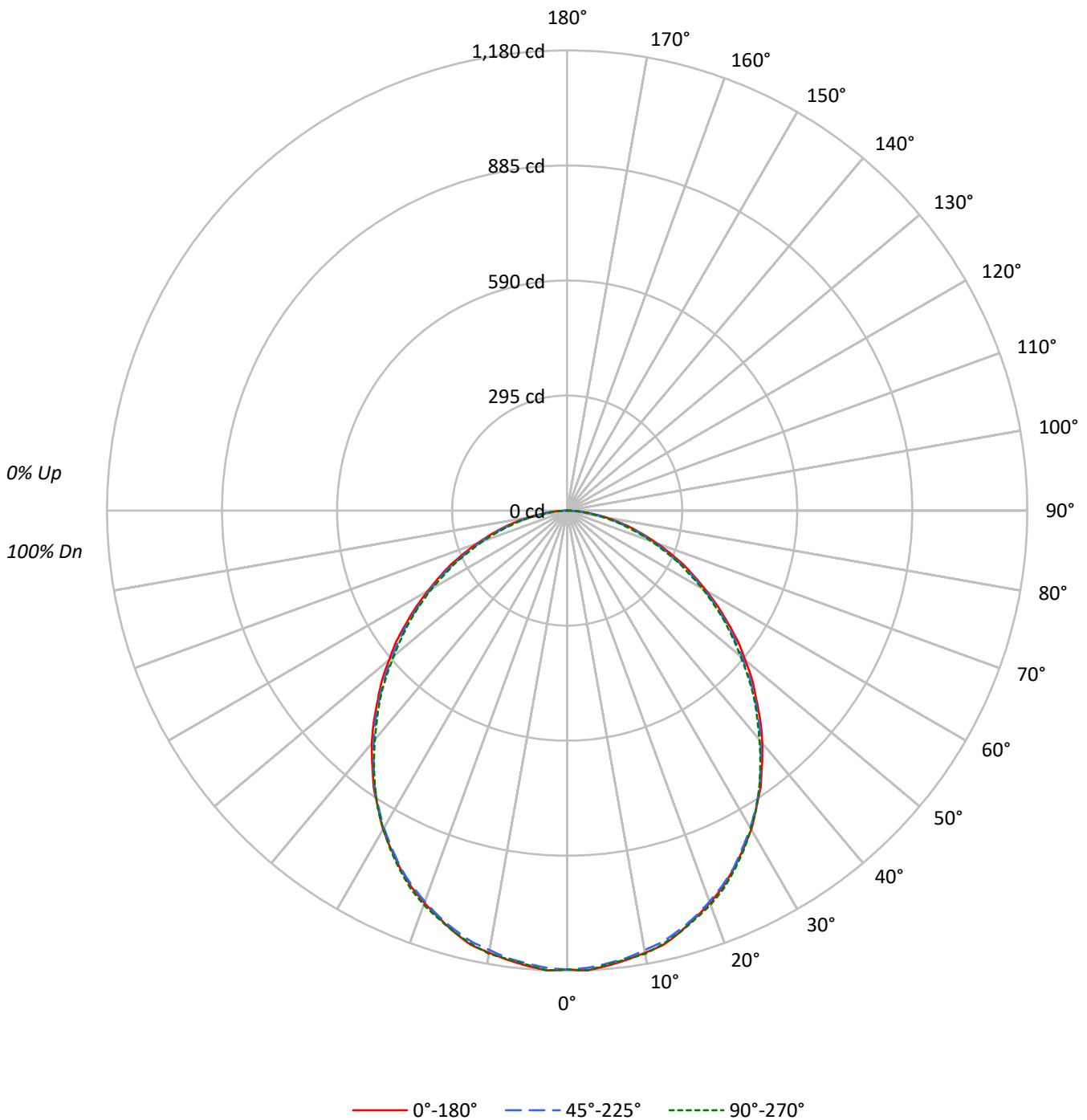
Input Watts (W): 21.018
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	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	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1583	1583	1583
5°	1583	1575	1579
10°	1573	1564	1577
15°	1559	1551	1559
20°	1533	1528	1540
25°	1503	1500	1508
30°	1467	1460	1464
35°	1421	1415	1411
40°	1368	1355	1347
45°	1306	1294	1288
50°	1247	1227	1214
55°	1181	1163	1152
60°	1110	1090	1077
65°	1049	1010	1001
70°	962	925	906
75°	884	830	795
80°	776	724	680
85°	627	584	496



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	3.8
10°-20°	314.7	10.8
20°-30°	465.5	15.9
30°-40°	537.3	18.4
40°-50°	524.8	17.9
50°-60°	443.1	15.1
60°-70°	315.6	10.8
70°-80°	170.9	5.8
80°-90°	44.1	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°	891.3	30.4
0°-40°	1428.5	48.8
0°-60°	2396.4	81.9
0°-90°	2927.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2927.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1177	1177	1177	1177	1177	
5°	1172	1172	1166	1169	1169	111
15°	1119	1114	1113	1118	1119	315
25°	1012	1007	1010	1014	1016	466
35°	865	858	861	858	859	540
45°	686	681	680	677	677	531
55°	503	497	496	491	491	451
65°	330	323	317	314	314	325
75°	170	164	160	156	153	180
85°	41	40	38	33	32	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1176.6	1176.6	1176.6	1176.6	1176.6
2.5°	1180.3	1175.6	1173.7	1174.7	1180.3
5°	1171.8	1171.8	1166.2	1169.0	1169.0
7.5°	1162.4	1163.4	1157.7	1162.4	1160.5
10°	1151.1	1148.2	1144.5	1152.0	1153.9
12.5°	1140.7	1134.1	1132.2	1136.9	1137.9
15°	1119.0	1114.2	1113.3	1118.0	1119.0
17.5°	1094.4	1095.4	1091.6	1098.2	1097.3
20°	1070.8	1068.9	1067.0	1074.6	1075.5
22.5°	1044.4	1038.7	1040.6	1047.2	1049.1
25°	1012.3	1006.6	1010.4	1014.2	1016.0
27.5°	978.3	975.4	974.5	979.2	981.1
30°	944.3	939.6	939.6	945.2	942.4
32.5°	902.7	899.0	900.8	902.7	903.7
35°	865.0	858.3	861.2	858.3	859.3
37.5°	820.6	815.9	814.9	814.0	814.0
40°	779.0	775.3	771.5	771.5	766.8
42.5°	733.7	729.0	727.1	724.3	721.4
45°	686.5	680.8	679.9	677.0	677.0
47.5°	644.0	635.5	634.6	628.9	628.9
50°	595.8	590.2	586.4	582.6	579.8
52.5°	552.4	546.7	541.1	537.3	534.5
55°	503.3	496.7	495.7	491.0	491.0
57.5°	458.9	453.3	449.5	443.8	444.8
60°	412.6	407.0	405.1	400.4	400.4
62.5°	369.2	364.5	361.7	356.9	353.2
65°	329.6	322.9	317.3	313.5	314.4
67.5°	286.1	278.6	275.7	272.0	269.1
70°	244.6	239.8	235.1	230.4	230.4
72.5°	205.9	201.1	198.3	192.6	190.7
75°	170.0	164.3	159.6	155.8	153.0
77.5°	134.1	128.4	125.6	120.9	120.9
80°	100.1	96.3	93.5	91.6	87.8
82.5°	68.9	67.0	64.2	61.4	58.5
85°	40.6	39.7	37.8	33.0	32.1
87.5°	16.1	16.1	14.2	13.2	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)