

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: P183767

Luminaire Tested: **24SR-LD2-29-C-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183767  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34443)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24SR-LD2-29-C-UNV-L830-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 2X4 TROFFER  
  
Light Source: EATON LED 3000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2840.2 lumens  
Efficiency: N/A  
Efficacy: 125.7 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.52 / 1.48  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

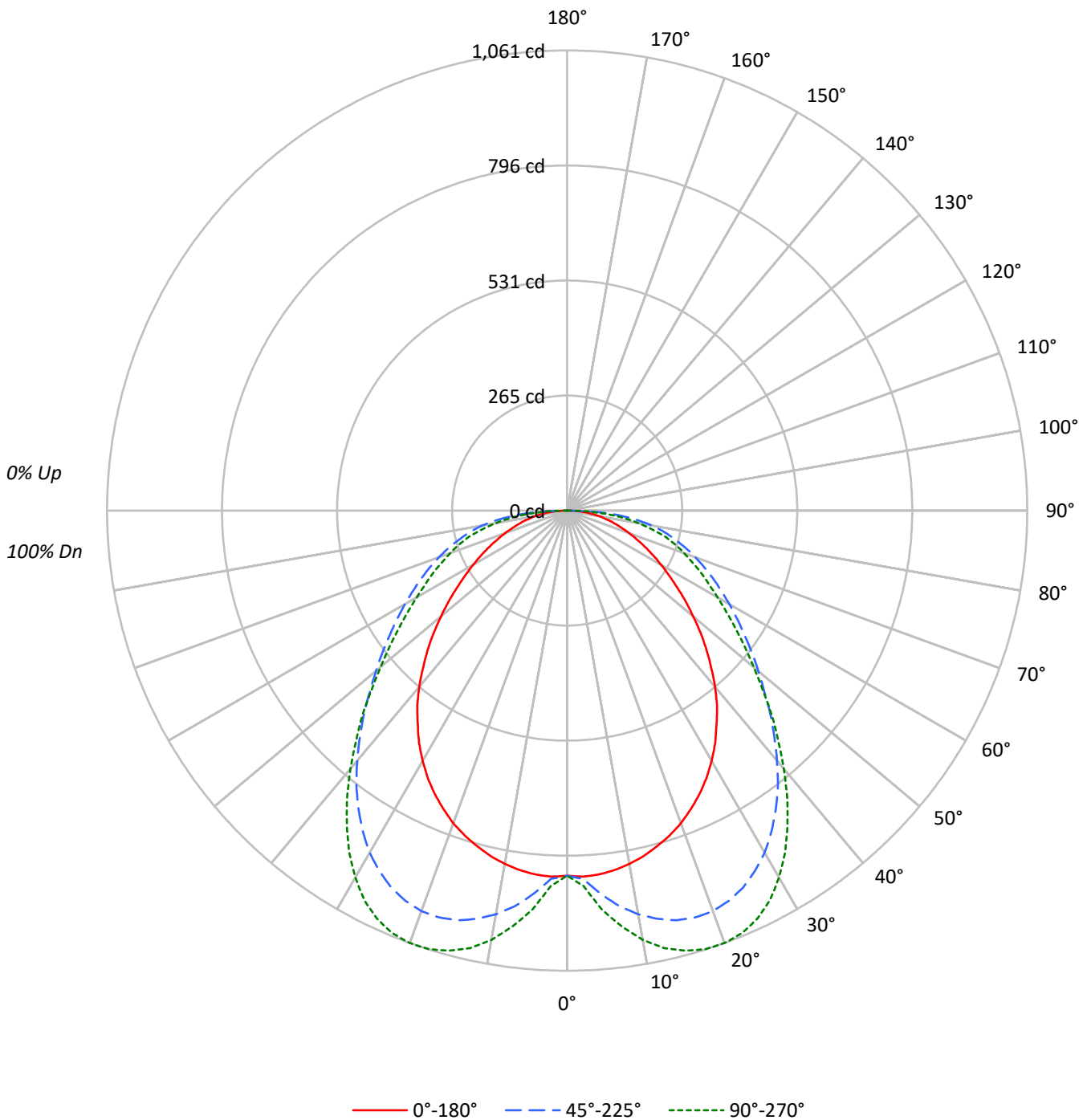
Input Watts (W): 22.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	103	98	94	105	101	96	93	96	93	90	92	89	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1133	1133	1133
5°	1137	1197	1247
10°	1130	1291	1373
15°	1116	1362	1463
20°	1099	1407	1519
25°	1071	1424	1541
30°	1035	1415	1518
35°	986	1378	1455
40°	932	1322	1365
45°	866	1261	1270
50°	794	1204	1176
55°	728	1170	1110
60°	674	1162	1078
65°	630	1183	1087
70°	599	1236	1129
75°	580	1341	1225
80°	587	1541	1292
85°	614	1797	1408



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.0	3.0
10°-20°	270.9	9.5
20°-30°	427.6	15.1
30°-40°	501.1	17.6
40°-50°	479.4	16.9
50°-60°	408.5	14.4
60°-70°	327.8	11.5
70°-80°	237.3	8.4
80°-90°	101.3	3.6
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°	784.6	27.6
0°-40°	1285.8	45.3
0°-60°	2173.7	76.5
0°-90°	2840.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2840.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	842	842	842	842	842	
5°	842	858	887	918	923	80
15°	801	897	978	1036	1050	226
25°	722	860	959	1024	1038	332
35°	600	748	839	884	886	376
45°	455	588	662	671	667	351
55°	310	442	499	485	473	279
65°	198	333	372	347	341	197
75°	112	236	258	238	236	118
85°	40	118	116	96	91	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	842.0	842.0	842.0	842.0	842.0
2.5°	844.9	845.8	849.7	866.2	866.2
5°	842.0	857.5	886.6	917.6	923.4
7.5°	836.1	871.1	919.6	959.3	967.1
10°	827.4	885.6	944.8	993.3	1004.9
12.5°	815.8	894.3	964.2	1019.5	1033.1
15°	801.2	897.3	977.8	1036.0	1050.5
17.5°	785.7	896.3	983.6	1045.7	1060.2
20°	767.3	888.5	982.6	1047.6	1061.2
22.5°	745.0	877.9	973.9	1039.9	1054.4
25°	721.7	860.4	959.3	1024.3	1037.9
27.5°	695.5	840.0	937.0	1000.1	1012.7
30°	666.4	813.8	910.8	967.1	976.8
32.5°	635.4	782.8	876.9	928.3	935.1
35°	600.4	747.9	839.1	883.7	885.6
37.5°	567.5	710.0	798.3	834.2	833.2
40°	530.6	669.3	752.7	781.8	777.0
42.5°	491.8	628.6	707.1	727.5	720.7
45°	454.9	587.8	662.5	671.2	667.4
47.5°	417.1	547.1	616.0	622.7	611.1
50°	379.3	510.2	575.2	572.3	561.6
52.5°	344.4	476.3	536.4	527.7	516.0
55°	310.4	442.3	498.6	485.0	473.4
57.5°	278.4	412.3	464.6	446.2	435.5
60°	250.3	383.2	431.7	410.3	400.6
62.5°	223.1	357.0	400.6	378.3	368.6
65°	197.9	332.7	371.5	347.3	341.4
67.5°	173.6	308.5	342.4	319.1	312.3
70°	152.3	283.2	314.3	291.0	287.1
72.5°	131.0	260.0	286.2	264.8	261.9
75°	111.6	235.7	258.0	237.7	235.7
77.5°	92.2	209.5	229.9	205.6	200.8
80°	75.7	183.3	198.9	170.7	166.8
82.5°	57.2	151.3	159.1	133.9	131.9
85°	39.8	118.3	116.4	96.0	91.2
87.5°	21.3	70.8	62.1	49.5	47.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)