

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: P183808

Luminaire Tested: **24SR-LD2-29-S-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183808
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P32665)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24SR-LD2-29-S-UNV-L835-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X4 TROFFER

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2897.7 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.55 / 1.51
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

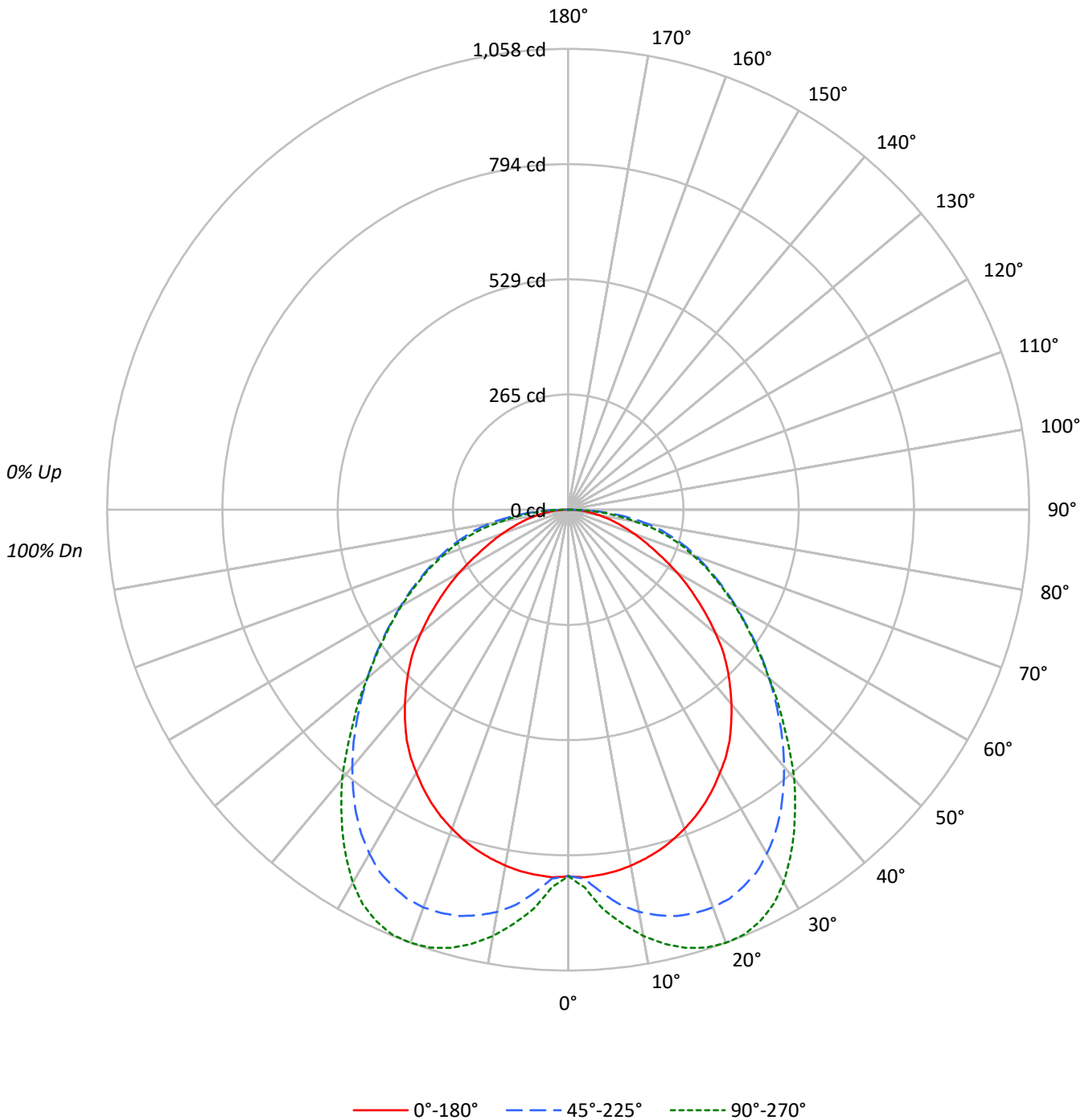
Input Watts (W): 22.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	69	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	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	40	52	45	39	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1132	1132	1132
5°	1137	1192	1243
10°	1133	1281	1358
15°	1127	1345	1450
20°	1116	1391	1515
25°	1103	1416	1547
30°	1083	1417	1536
35°	1061	1395	1484
40°	1024	1354	1418
45°	983	1305	1331
50°	924	1260	1260
55°	849	1220	1212
60°	773	1196	1189
65°	687	1196	1180
70°	632	1231	1194
75°	588	1304	1237
80°	553	1423	1206
85°	539	1536	1260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.7	3.0
10°-20°	269.3	9.3
20°-30°	428.8	14.8
30°-40°	511.4	17.6
40°-50°	503.8	17.4
50°-60°	435.1	15.0
60°-70°	339.6	11.7
70°-80°	232.7	8.0
80°-90°	91.3	3.2
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°	783.8	27.1
0°-40°	1295.2	44.7
0°-60°	2234.1	77.1
0°-90°	2897.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2897.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	842	842	842	842	842	
5°	842	857	882	916	921	80
15°	809	895	966	1026	1041	228
25°	743	860	954	1026	1042	342
35°	646	756	849	898	904	403
45°	517	611	686	706	700	398
55°	362	459	520	522	517	325
65°	216	323	376	374	371	217
75°	113	219	251	241	238	120
85°	35	105	100	85	82	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	841.5	841.5	841.5	841.5	841.5
2.5°	844.9	845.8	847.5	864.5	867.9
5°	841.5	856.8	882.3	915.5	920.6
7.5°	837.3	871.3	914.6	950.3	958.8
10°	829.6	885.7	937.6	982.7	993.7
12.5°	820.3	893.4	953.7	1006.5	1020.9
15°	809.2	895.1	965.6	1026.0	1041.3
17.5°	795.6	892.5	970.7	1037.1	1054.1
20°	779.5	885.7	971.6	1041.3	1058.3
22.5°	762.5	875.5	966.5	1037.9	1055.8
25°	742.9	860.2	953.7	1026.0	1042.2
27.5°	720.8	839.0	937.6	1005.6	1020.9
30°	697.0	814.3	912.1	975.9	988.6
32.5°	673.2	787.1	883.2	940.1	947.8
35°	646.0	755.7	849.2	897.6	903.6
37.5°	614.6	724.2	810.9	853.4	855.1
40°	583.1	686.0	771.0	802.4	807.5
42.5°	550.0	648.6	729.3	755.7	752.3
45°	516.8	611.2	686.0	705.5	699.6
47.5°	482.0	572.9	643.5	656.2	652.0
50°	441.2	534.7	601.8	608.6	601.8
52.5°	402.1	498.1	561.0	564.4	558.5
55°	362.1	459.0	520.2	521.9	516.8
57.5°	325.6	422.5	481.1	481.1	478.6
60°	287.3	385.9	444.6	442.9	442.0
62.5°	250.8	353.6	410.6	408.0	405.5
65°	215.9	323.0	375.7	374.0	370.6
67.5°	187.0	294.1	343.4	340.9	339.2
70°	160.7	268.6	312.8	306.0	303.5
72.5°	135.2	243.1	283.1	272.9	273.7
75°	113.1	219.3	250.8	240.6	238.0
77.5°	91.0	194.7	219.3	203.2	199.8
80°	71.4	168.3	183.6	163.2	155.6
82.5°	52.7	139.4	142.8	123.3	118.2
85°	34.9	105.4	99.5	85.0	81.6
87.5°	18.7	62.1	53.6	43.4	40.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)