

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: P183814

Luminaire Tested: **24SR-LD2-34-S-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183814
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-LD2-34-S-UNV-L840-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X4 TROFFER

Light Source: EATON LED 4000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

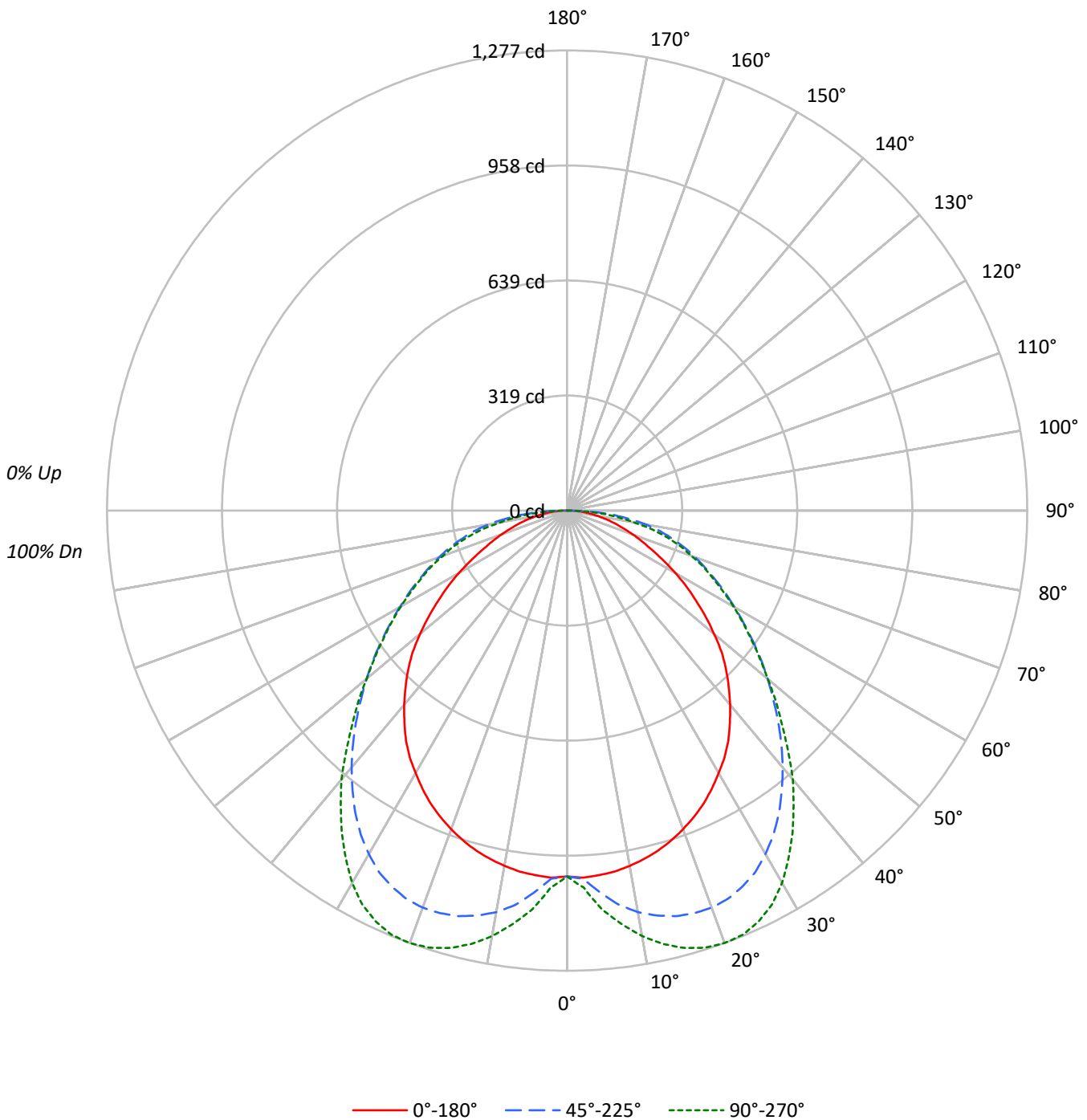
Lumens per Lamp: N/A
Luminaire Lumens: 3496.7 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.55 / 1.51
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 27.2
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°	1366	1366	1366
5°	1372	1438	1500
10°	1368	1546	1638
15°	1360	1623	1750
20°	1347	1679	1829
25°	1331	1709	1867
30°	1307	1710	1853
35°	1281	1683	1791
40°	1236	1634	1712
45°	1187	1575	1606
50°	1114	1520	1520
55°	1025	1473	1463
60°	933	1444	1435
65°	829	1443	1424
70°	763	1485	1441
75°	709	1573	1493
80°	668	1717	1454
85°	650	1853	1521



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.4	3.0
10°-20°	325.0	9.3
20°-30°	517.5	14.8
30°-40°	617.1	17.6
40°-50°	607.9	17.4
50°-60°	525.0	15.0
60°-70°	409.8	11.7
70°-80°	280.8	8.0
80°-90°	110.2	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°	945.9	27.1
0°-40°	1563.0	44.7
0°-60°	2696.0	77.1
0°-90°	3496.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3496.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1016	1016	1016	1016	1016	
5°	1016	1034	1065	1105	1111	97
15°	976	1080	1165	1238	1257	275
25°	896	1038	1151	1238	1258	413
35°	780	912	1025	1083	1090	486
45°	624	738	828	851	844	480
55°	437	554	628	630	624	392
65°	260	390	453	451	447	262
75°	136	265	303	290	287	145
85°	42	127	120	103	98	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1015.5	1015.5	1015.5	1015.5	1015.5
2.5°	1019.6	1020.6	1022.7	1043.2	1047.3
5°	1015.5	1034.0	1064.7	1104.7	1110.9
7.5°	1010.4	1051.4	1103.7	1146.8	1157.1
10°	1001.1	1068.8	1131.4	1185.8	1199.1
12.5°	989.9	1078.1	1150.9	1214.5	1231.9
15°	976.5	1080.1	1165.3	1238.1	1256.6
17.5°	960.1	1077.1	1171.4	1251.4	1271.9
20°	940.6	1068.8	1172.5	1256.6	1277.1
22.5°	920.1	1056.5	1166.3	1252.5	1274.0
25°	896.5	1038.1	1150.9	1238.1	1257.6
27.5°	869.8	1012.4	1131.4	1213.5	1231.9
30°	841.1	982.7	1100.6	1177.6	1193.0
32.5°	812.4	949.9	1065.8	1134.5	1143.7
35°	779.6	911.9	1024.7	1083.2	1090.4
37.5°	741.6	874.0	978.6	1029.9	1031.9
40°	703.7	827.8	930.4	968.3	974.5
42.5°	663.7	782.7	880.1	911.9	907.8
45°	623.7	737.5	827.8	851.4	844.2
47.5°	581.6	691.4	776.5	791.9	786.8
50°	532.4	645.2	726.2	734.4	726.2
52.5°	485.2	601.1	677.0	681.1	673.9
55°	437.0	553.9	627.8	629.8	623.7
57.5°	392.9	509.8	580.6	580.6	577.5
60°	346.7	465.7	536.5	534.4	533.4
62.5°	302.6	426.7	495.4	492.4	489.3
65°	260.5	389.8	453.4	451.3	447.2
67.5°	225.7	354.9	414.4	411.3	409.3
70°	193.9	324.1	377.5	369.3	366.2
72.5°	163.1	293.4	341.6	329.3	330.3
75°	136.4	264.6	302.6	290.3	287.2
77.5°	109.8	234.9	264.6	245.2	241.1
80°	86.2	203.1	221.6	196.9	187.7
82.5°	63.6	168.2	172.3	148.7	142.6
85°	42.1	127.2	120.0	102.6	98.5
87.5°	22.6	74.9	64.6	52.3	49.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)