

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: P183769

Luminaire Tested: **24SR-LD2-29-C-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183769
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-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: 2986.6 lumens
Efficiency: N/A
Efficacy: 132.1 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

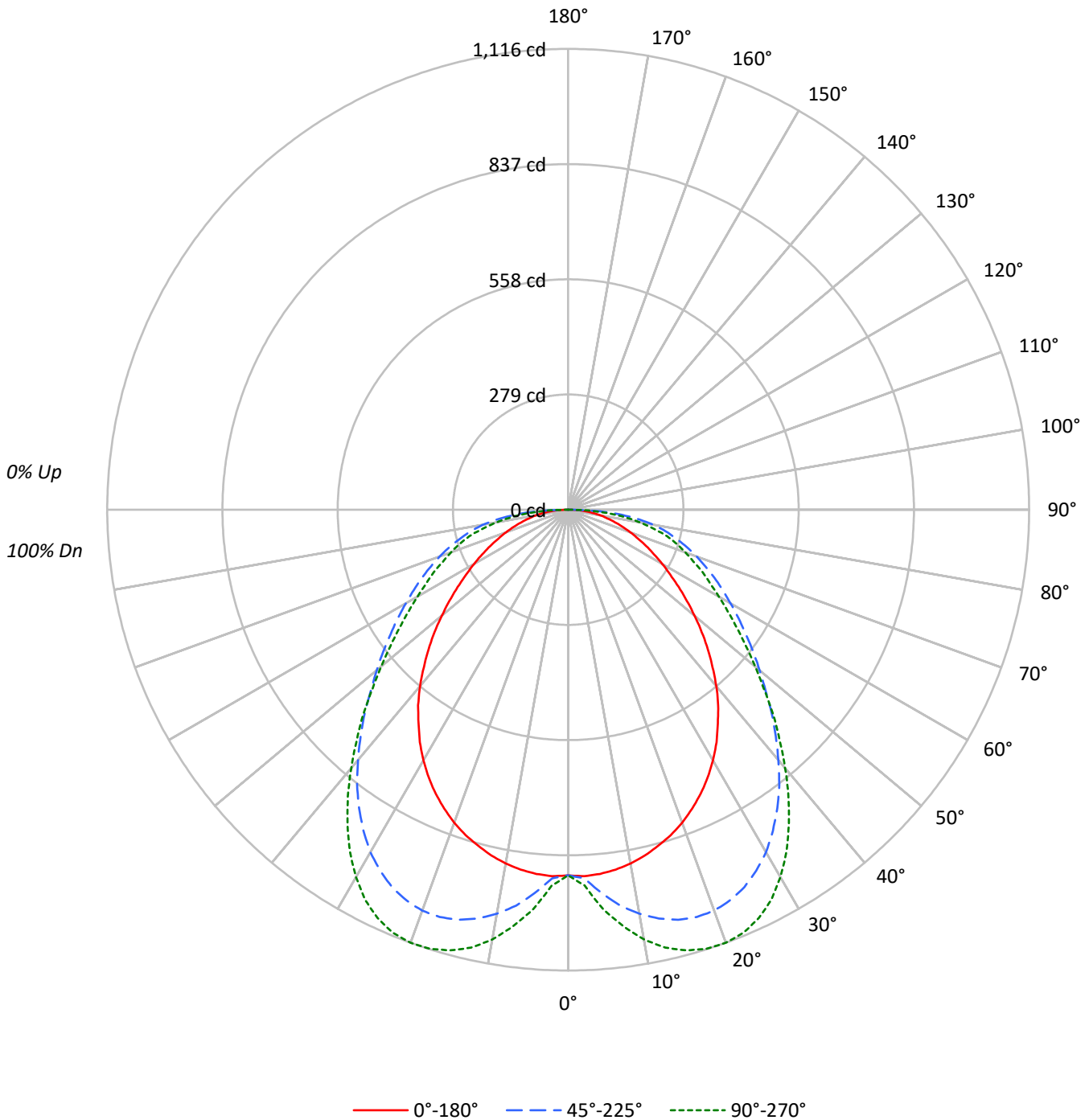
Input Watts (W): 22.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1191	1191	1191
5°	1196	1259	1311
10°	1189	1357	1444
15°	1174	1432	1539
20°	1155	1480	1598
25°	1127	1498	1620
30°	1089	1488	1596
35°	1037	1449	1530
40°	980	1390	1435
45°	910	1326	1335
50°	835	1266	1236
55°	766	1230	1168
60°	708	1221	1134
65°	663	1244	1143
70°	630	1300	1188
75°	610	1410	1289
80°	617	1620	1359
85°	645	1890	1480



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	3.0
10°-20°	284.9	9.5
20°-30°	449.7	15.1
30°-40°	527.0	17.6
40°-50°	504.1	16.9
50°-60°	429.6	14.4
60°-70°	344.7	11.5
70°-80°	249.5	8.4
80°-90°	106.5	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°	825.1	27.6
0°-40°	1352.0	45.3
0°-60°	2285.8	76.5
0°-90°	2986.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2986.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	885	885	885	885	885	
5°	885	902	932	965	971	84
15°	842	944	1028	1089	1105	238
25°	759	905	1009	1077	1091	349
35°	631	786	882	929	931	395
45°	478	618	697	706	702	369
55°	326	465	524	510	498	293
65°	208	350	391	365	359	207
75°	117	248	271	250	248	124
85°	42	124	122	101	96	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	885.4	885.4	885.4	885.4	885.4
2.5°	888.4	889.4	893.5	910.9	910.9
5°	885.4	901.7	932.3	964.9	971.0
7.5°	879.2	916.0	967.0	1008.8	1017.0
10°	870.1	931.3	993.5	1044.5	1056.7
12.5°	857.8	940.4	1013.9	1072.0	1086.3
15°	842.5	943.5	1028.2	1089.4	1104.7
17.5°	826.2	942.5	1034.3	1099.6	1114.9
20°	806.8	934.3	1033.3	1101.6	1115.9
22.5°	783.4	923.1	1024.1	1093.5	1108.8
25°	758.9	904.7	1008.8	1077.1	1091.4
27.5°	731.3	883.3	985.3	1051.6	1064.9
30°	700.7	855.8	957.8	1017.0	1027.2
32.5°	668.1	823.1	922.1	976.1	983.3
35°	631.4	786.4	882.3	929.2	931.3
37.5°	596.7	746.6	839.5	877.2	876.2
40°	557.9	703.8	791.5	822.1	817.0
42.5°	517.1	661.0	743.6	765.0	757.9
45°	478.4	618.1	696.7	705.8	701.8
47.5°	438.6	575.3	647.7	654.8	642.6
50°	398.8	536.5	604.9	601.8	590.6
52.5°	362.1	500.8	564.1	554.9	542.6
55°	326.4	465.1	524.3	510.0	497.8
57.5°	292.7	433.5	488.6	469.2	458.0
60°	263.2	402.9	453.9	431.5	421.3
62.5°	234.6	375.4	421.3	397.8	387.6
65°	208.1	349.9	390.7	365.2	359.0
67.5°	182.6	324.4	360.1	335.6	328.4
70°	160.1	297.8	330.5	306.0	301.9
72.5°	137.7	273.4	300.9	278.5	275.4
75°	117.3	247.9	271.3	249.9	247.9
77.5°	96.9	220.3	241.7	216.2	211.1
80°	79.6	192.8	209.1	179.5	175.4
82.5°	60.2	159.1	167.3	140.8	138.7
85°	41.8	124.4	122.4	101.0	95.9
87.5°	22.4	74.5	65.3	52.0	50.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)