

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: P183964

Luminaire Tested: **14SR-LD2-30-S-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183964
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P166748)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14SR-LD2-30-S-UNV-L840-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3096.5 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.5 / 1.46
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

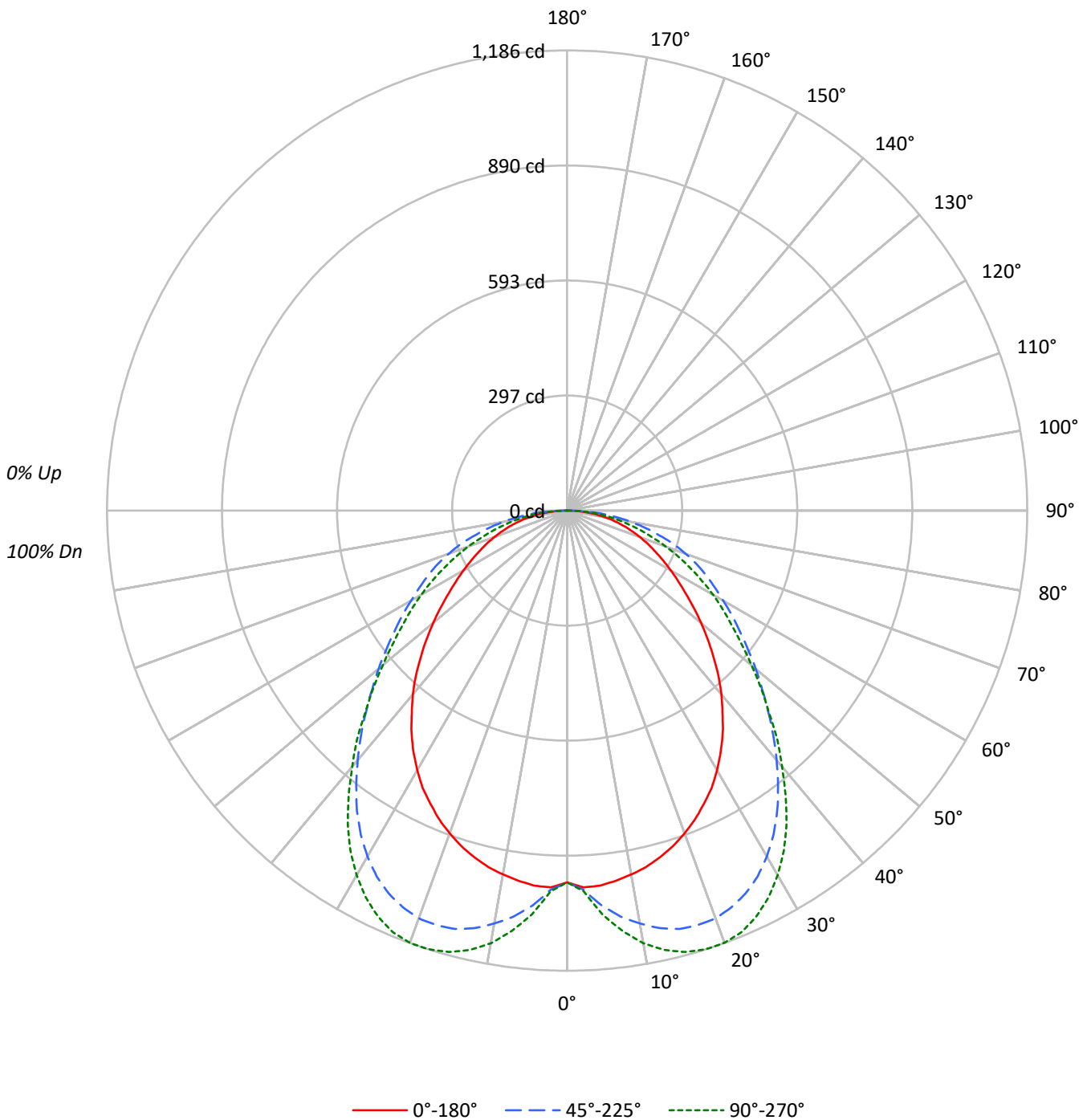
Input Watts (W): 24.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2578	2578	2578
5°	2621	2760	2823
10°	2602	2953	3094
15°	2576	3110	3281
20°	2535	3203	3395
25°	2476	3233	3426
30°	2401	3199	3371
35°	2298	3102	3239
40°	2173	2950	3026
45°	2030	2790	2798
50°	1886	2655	2598
55°	1752	2549	2438
60°	1659	2499	2340
65°	1598	2516	2227
70°	1570	2550	2129
75°	1561	2547	2035
80°	1533	2572	1990
85°	1467	2683	2013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.1	3.2
10°-20°	306.9	9.9
20°-30°	481.4	15.5
30°-40°	561.3	18.1
40°-50°	534.1	17.2
50°-60°	450.9	14.6
60°-70°	351.3	11.3
70°-80°	229.1	7.4
80°-90°	83.4	2.7
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°	886.3	28.6
0°-40°	1447.7	46.8
0°-60°	2432.7	78.6
0°-90°	3096.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3096.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	970	974	1022	1045	1045	92
15°	925	1016	1116	1166	1178	261
25°	834	970	1089	1140	1154	384
35°	699	838	944	978	986	436
45°	533	654	733	741	735	412
55°	373	490	543	528	520	336
65°	251	360	395	364	350	250
75°	150	241	245	205	196	158
85°	48	103	87	67	65	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	958.2	958.2	958.2	958.2	958.2
2.5°	972.1	960.3	978.1	989.8	982.0
5°	970.2	974.1	1021.6	1045.2	1045.2
7.5°	962.2	989.8	1055.1	1086.7	1092.6
10°	952.4	1003.7	1080.8	1122.3	1132.2
12.5°	940.5	1013.6	1102.5	1147.9	1159.9
15°	924.8	1015.6	1116.4	1165.7	1177.7
17.5°	906.9	1011.7	1120.3	1173.7	1185.5
20°	885.2	1003.7	1118.4	1171.7	1185.5
22.5°	861.4	989.8	1106.5	1159.9	1175.6
25°	833.8	970.2	1088.7	1140.1	1153.9
27.5°	806.1	942.5	1063.1	1110.4	1124.2
30°	772.6	912.8	1029.4	1074.9	1084.8
32.5°	737.0	877.3	989.8	1031.3	1039.3
35°	699.4	837.7	944.4	978.1	985.9
37.5°	657.9	792.3	893.0	922.7	924.8
40°	618.5	746.9	839.7	863.5	861.4
42.5°	577.0	701.4	786.5	802.2	802.2
45°	533.4	654.0	733.0	740.9	735.1
47.5°	491.9	610.6	681.6	683.7	677.7
50°	450.4	567.1	634.3	628.4	620.5
52.5°	411.0	525.6	586.9	574.9	567.1
55°	373.4	490.0	543.3	527.6	519.6
57.5°	339.8	454.5	503.9	484.1	476.2
60°	308.2	420.9	464.3	442.6	434.7
62.5°	278.7	389.3	428.8	403.1	391.2
65°	251.0	359.6	395.1	363.5	349.7
67.5°	225.2	329.9	361.6	322.0	310.2
70°	199.6	300.3	324.1	282.6	270.6
72.5°	173.8	270.6	288.4	243.0	231.2
75°	150.1	241.1	245.0	205.4	195.7
77.5°	124.5	215.3	207.5	169.9	160.0
80°	98.9	181.8	166.0	134.4	128.4
82.5°	73.1	142.2	126.5	100.7	96.8
85°	47.5	102.8	86.9	67.1	65.2
87.5°	23.7	55.3	43.5	33.6	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)