

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: P183963

Luminaire Tested: **14SR-LD2-30-S-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183963
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-L835-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3035.7 lumens
Efficiency: N/A
Efficacy: 123.9 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

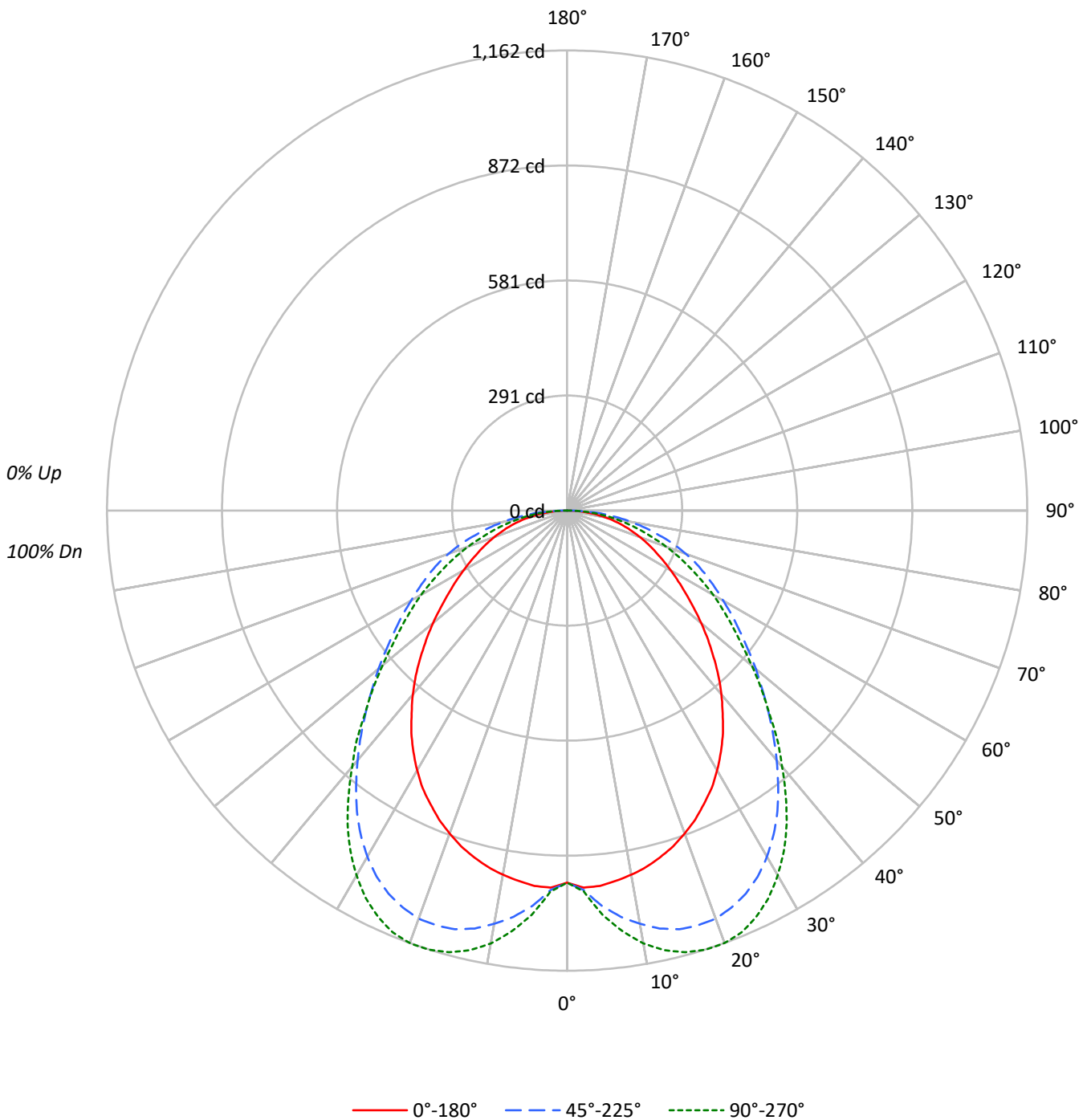
Input Watts (W): 24.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2528	2528	2528
5°	2569	2706	2768
10°	2552	2895	3033
15°	2526	3049	3217
20°	2485	3140	3328
25°	2427	3169	3359
30°	2354	3136	3305
35°	2253	3042	3175
40°	2130	2892	2967
45°	1990	2735	2743
50°	1849	2604	2547
55°	1718	2499	2390
60°	1626	2450	2294
65°	1567	2467	2183
70°	1540	2500	2087
75°	1530	2497	1994
80°	1502	2521	1951
85°	1436	2631	1973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.1	3.2
10°-20°	300.8	9.9
20°-30°	472.0	15.5
30°-40°	550.3	18.1
40°-50°	523.6	17.2
50°-60°	442.1	14.6
60°-70°	344.4	11.3
70°-80°	224.6	7.4
80°-90°	81.7	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°	868.9	28.6
0°-40°	1419.3	46.8
0°-60°	2385.0	78.6
0°-90°	3035.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3035.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	940	940	940	940	940	
5°	951	955	1002	1025	1025	90
15°	907	996	1094	1143	1155	255
25°	817	951	1067	1118	1131	376
35°	686	821	926	959	967	428
45°	523	641	719	726	721	404
55°	366	480	533	517	509	329
65°	246	352	387	356	343	245
75°	147	236	240	201	192	155
85°	46	101	85	66	64	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	939.5	939.5	939.5	939.5	939.5
2.5°	953.0	941.5	958.9	970.4	962.7
5°	951.2	955.0	1001.6	1024.7	1024.7
7.5°	943.3	970.4	1034.4	1065.3	1071.2
10°	933.8	984.0	1059.6	1100.3	1110.0
12.5°	922.0	993.7	1080.9	1125.4	1137.2
15°	906.6	995.7	1094.5	1142.9	1154.6
17.5°	889.1	991.8	1098.3	1150.7	1162.3
20°	867.8	984.0	1096.5	1148.7	1162.3
22.5°	844.5	970.4	1084.8	1137.2	1152.6
25°	817.4	951.2	1067.3	1117.7	1131.3
27.5°	790.3	924.1	1042.2	1088.6	1102.2
30°	757.5	894.9	1009.3	1053.8	1063.5
32.5°	722.5	860.1	970.4	1011.1	1019.0
35°	685.7	821.3	925.9	958.9	966.6
37.5°	645.0	776.7	875.5	904.6	906.6
40°	606.3	732.2	823.3	846.5	844.5
42.5°	565.6	687.7	771.0	786.5	786.5
45°	523.0	641.1	718.7	726.4	720.7
47.5°	482.3	598.6	668.3	670.3	664.4
50°	441.6	555.9	621.9	616.0	608.3
52.5°	402.9	515.3	575.4	563.6	555.9
55°	366.1	480.4	532.7	517.3	509.4
57.5°	333.1	445.6	494.0	474.6	466.9
60°	302.2	412.6	455.2	433.9	426.2
62.5°	273.2	381.7	420.3	395.2	383.5
65°	246.1	352.5	387.4	356.4	342.8
67.5°	220.8	323.4	354.6	315.7	304.2
70°	195.7	294.5	317.7	277.0	265.3
72.5°	170.4	265.3	282.7	238.2	226.7
75°	147.2	236.4	240.2	201.4	191.8
77.5°	122.0	211.1	203.4	166.6	156.9
80°	96.9	178.3	162.7	131.7	125.9
82.5°	71.6	139.4	124.0	98.8	94.9
85°	46.5	100.8	85.2	65.8	63.9
87.5°	23.3	54.2	42.7	33.0	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)