

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: P183920

Luminaire Tested: **14SR-LD2-30-C-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183920
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34451)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14SR-LD2-30-C-UNV-L850-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER

Light Source: EATON LED 5000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3379.9 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.42 / 1.41
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

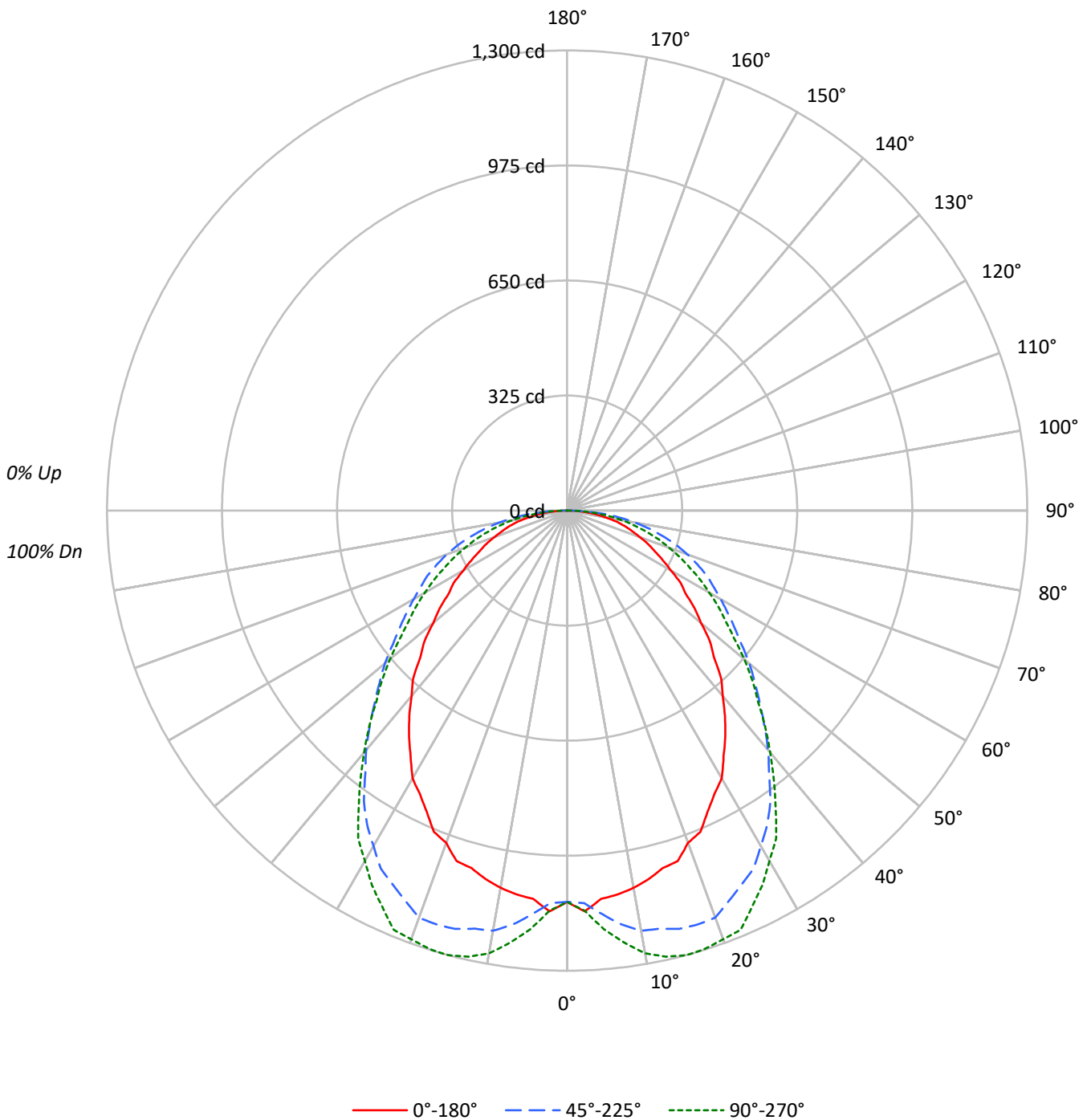
Input Watts (W): 24.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	83	70	62	55	80	69	61	55	67	59	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	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	44	35	30	55	43	35	30	42	35	30	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°	2975	2975	2975
5°	2974	3093	3205
10°	2957	3293	3470
15°	2912	3409	3622
20°	2861	3504	3690
25°	2787	3461	3668
30°	2715	3399	3550
35°	2558	3289	3373
40°	2402	3102	3134
45°	2232	2928	2902
50°	2066	2814	2736
55°	1914	2708	2566
60°	1821	2694	2495
65°	1741	2774	2435
70°	1714	2844	2407
75°	1735	2915	2410
80°	1688	3017	2442
85°	1646	3078	2433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	3.3
10°-20°	342.1	10.1
20°-30°	526.8	15.6
30°-40°	603.0	17.8
40°-50°	570.0	16.9
50°-60°	484.1	14.3
60°-70°	384.9	11.4
70°-80°	261.0	7.7
80°-90°	96.8	2.9
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°	980.2	29.0
0°-40°	1583.2	46.8
0°-60°	2637.3	78.0
0°-90°	3379.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3379.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1106	1106	1106	1106	1106	
5°	1101	1124	1145	1184	1187	105
15°	1045	1156	1224	1296	1300	296
25°	939	1096	1166	1228	1235	433
35°	779	936	1001	1029	1027	487
45°	586	725	769	779	762	456
55°	408	531	577	563	547	371
65°	274	392	436	399	382	274
75°	167	269	280	241	232	175
85°	53	114	100	81	79	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1105.5	1105.5	1105.5	1105.5	1105.5
2.5°	1133.3	1117.1	1110.1	1133.3	1131.0
5°	1100.9	1124.0	1144.9	1184.3	1186.6
7.5°	1093.9	1147.2	1179.7	1228.3	1230.6
10°	1082.3	1151.8	1205.1	1263.1	1270.0
12.5°	1066.1	1156.5	1209.8	1281.6	1290.9
15°	1045.2	1156.5	1223.7	1295.5	1300.2
17.5°	1038.3	1156.5	1226.0	1288.6	1297.9
20°	998.9	1144.9	1223.7	1279.3	1288.6
22.5°	982.7	1124.0	1193.6	1260.8	1281.6
25°	938.6	1096.2	1165.8	1228.3	1235.3
27.5°	901.5	1066.1	1140.3	1193.6	1193.6
30°	873.7	1029.0	1093.9	1144.9	1142.6
32.5°	822.7	978.0	1052.2	1091.6	1098.5
35°	778.7	936.3	1001.2	1029.0	1026.7
37.5°	732.4	883.0	936.3	968.8	959.5
40°	683.7	829.7	883.0	903.9	892.3
42.5°	644.3	774.1	825.1	839.0	827.4
45°	586.4	725.4	769.4	778.7	762.5
47.5°	547.0	672.1	718.5	718.5	709.2
50°	493.6	621.1	672.1	658.2	653.6
52.5°	454.2	577.1	621.1	609.5	595.6
55°	407.9	530.7	577.1	563.2	547.0
57.5°	380.1	493.6	537.7	521.5	507.6
60°	338.4	456.6	500.6	479.7	463.5
62.5°	305.9	424.1	465.8	440.3	424.1
65°	273.5	391.7	435.7	398.6	382.4
67.5°	248.0	361.5	398.6	359.2	345.3
70°	217.9	326.8	361.5	319.8	305.9
72.5°	192.4	299.0	322.1	280.4	271.2
75°	166.9	268.8	280.4	241.0	231.8
77.5°	141.4	238.7	238.7	203.9	194.7
80°	108.9	203.9	194.7	164.5	157.6
82.5°	83.4	162.2	148.3	122.8	118.2
85°	53.3	113.6	99.7	81.1	78.8
87.5°	25.5	60.3	48.7	39.4	37.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)