

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: P183962

Luminaire Tested: **14SR-LD2-30-S-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183962
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-L830-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER

Light Source: EATON LED 3000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2944.7 lumens
Efficiency: N/A
Efficacy: 120.2 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

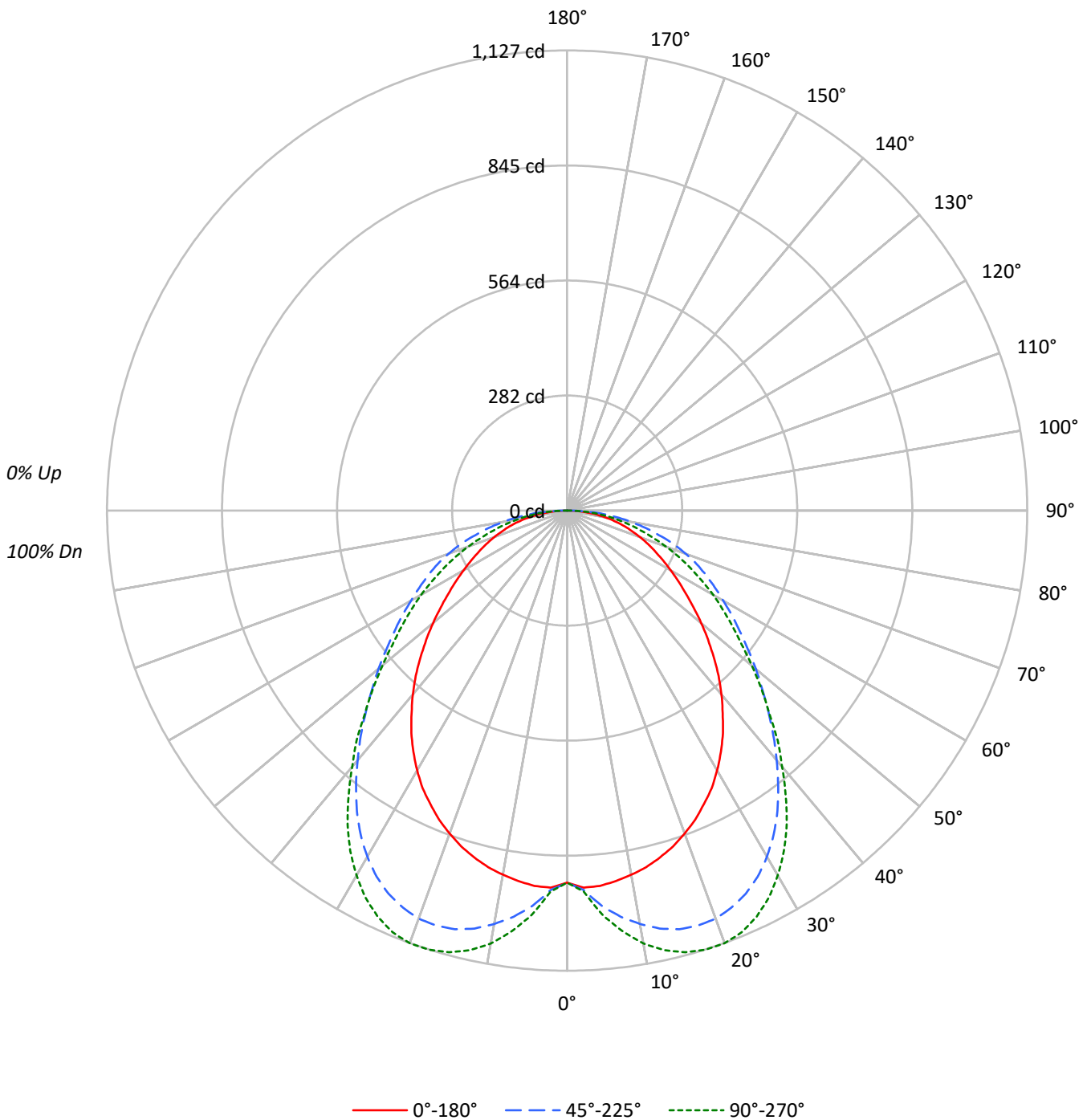
Input Watts (W): 24.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2452	2452	2452
5°	2492	2624	2685
10°	2475	2809	2942
15°	2450	2958	3120
20°	2411	3046	3229
25°	2354	3074	3258
30°	2283	3042	3205
35°	2185	2950	3080
40°	2066	2805	2878
45°	1931	2653	2660
50°	1793	2525	2470
55°	1666	2424	2318
60°	1577	2376	2225
65°	1520	2392	2118
70°	1493	2425	2025
75°	1484	2423	1935
80°	1457	2445	1892
85°	1392	2553	1914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.3	3.2
10°-20°	291.8	9.9
20°-30°	457.8	15.5
30°-40°	533.8	18.1
40°-50°	507.9	17.2
50°-60°	428.8	14.6
60°-70°	334.1	11.3
70°-80°	217.9	7.4
80°-90°	79.3	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°	842.9	28.6
0°-40°	1376.7	46.8
0°-60°	2313.4	78.6
0°-90°	2944.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2944.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	911	911	911	911	911	
5°	923	926	972	994	994	87
15°	879	966	1062	1109	1120	248
25°	793	923	1035	1084	1097	365
35°	665	797	898	930	938	415
45°	507	622	697	705	699	392
55°	355	466	517	502	494	320
65°	239	342	376	346	333	237
75°	143	229	233	195	186	150
85°	45	98	83	64	62	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	911.3	911.3	911.3	911.3	911.3
2.5°	924.4	913.2	930.1	941.3	933.8
5°	922.6	926.4	971.5	993.9	993.9
7.5°	915.0	941.3	1003.3	1033.4	1039.1
10°	905.7	954.5	1027.9	1067.3	1076.7
12.5°	894.4	963.9	1048.5	1091.7	1103.0
15°	879.4	965.8	1061.6	1108.6	1119.9
17.5°	862.4	962.1	1065.4	1116.2	1127.4
20°	841.8	954.5	1063.6	1114.2	1127.4
22.5°	819.2	941.3	1052.2	1103.0	1118.0
25°	792.9	922.6	1035.3	1084.2	1097.4
27.5°	766.6	896.3	1011.0	1056.0	1069.1
30°	734.8	868.1	979.0	1022.2	1031.6
32.5°	700.8	834.3	941.3	980.8	988.4
35°	665.1	796.6	898.1	930.1	937.6
37.5°	625.7	753.4	849.2	877.5	879.4
40°	588.1	710.2	798.6	821.1	819.2
42.5°	548.7	667.1	747.9	762.9	762.9
45°	507.3	621.9	697.1	704.6	699.0
47.5°	467.8	580.7	648.2	650.2	644.5
50°	428.4	539.3	603.2	597.6	590.1
52.5°	390.8	499.8	558.1	546.7	539.3
55°	355.1	466.0	516.7	501.7	494.1
57.5°	323.1	432.2	479.2	460.3	452.9
60°	293.1	400.3	441.5	420.9	413.4
62.5°	265.0	370.2	407.7	383.4	372.0
65°	238.7	342.0	375.7	345.7	332.6
67.5°	214.2	313.7	343.9	306.2	295.0
70°	189.8	285.6	308.2	268.7	257.4
72.5°	165.3	257.4	274.3	231.1	219.9
75°	142.7	229.3	233.0	195.3	186.1
77.5°	118.4	204.8	197.3	161.6	152.2
80°	94.0	172.9	157.8	127.8	122.1
82.5°	69.5	135.3	120.3	95.8	92.1
85°	45.1	97.7	82.7	63.8	62.0
87.5°	22.6	52.6	41.4	32.0	30.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)