

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: P183957

Luminaire Tested: **14SR-LD2-25-S-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183957  
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-LD2-25-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: 2427.3 lumens  
Efficiency: N/A  
Efficacy: 116.1 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

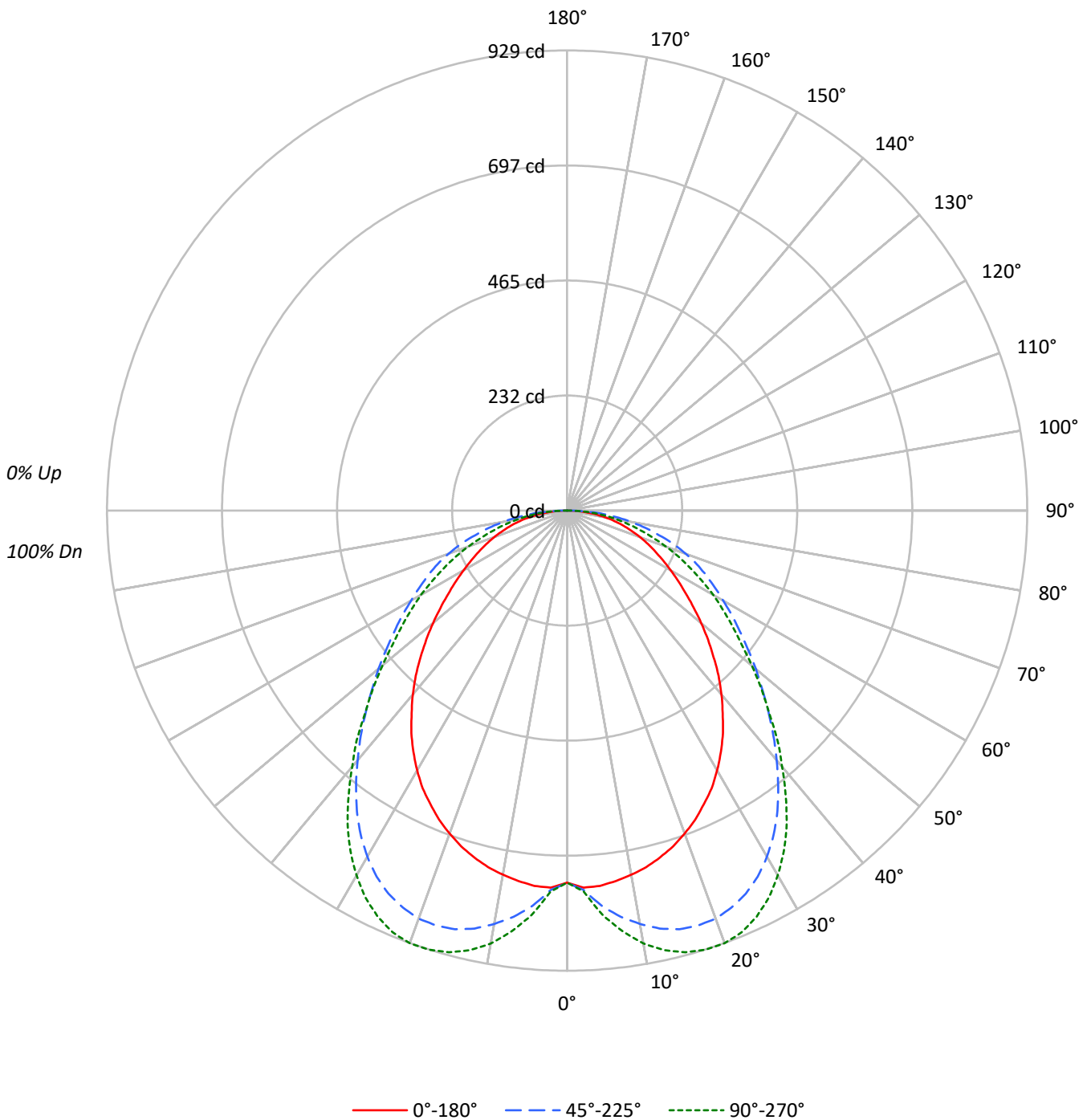
Input Watts (W): 20.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2021	2021	2021
5°	2054	2163	2213
10°	2040	2315	2425
15°	2020	2438	2572
20°	1987	2511	2661
25°	1941	2534	2686
30°	1882	2508	2642
35°	1801	2432	2539
40°	1703	2312	2372
45°	1591	2187	2193
50°	1478	2081	2036
55°	1373	1998	1911
60°	1300	1958	1834
65°	1253	1972	1745
70°	1231	1998	1670
75°	1224	1997	1595
80°	1201	2016	1561
85°	1149	2103	1578



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.9	3.2
10°-20°	240.5	9.9
20°-30°	377.4	15.5
30°-40°	440.0	18.1
40°-50°	418.7	17.2
50°-60°	353.5	14.6
60°-70°	275.4	11.3
70°-80°	179.6	7.4
80°-90°	65.4	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°	694.8	28.6
0°-40°	1134.8	46.8
0°-60°	1907.0	78.6
0°-90°	2427.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2427.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	751	751	751	751	751	
5°	760	764	801	819	819	72
15°	725	796	875	914	923	204
25°	654	760	853	894	905	301
35°	548	657	740	767	773	342
45°	418	513	575	581	576	323
55°	293	384	426	414	407	263
65°	197	282	310	285	274	196
75°	118	189	192	161	153	124
85°	37	81	68	53	51	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	751.2	751.2	751.2	751.2	751.2
2.5°	762.0	752.8	766.7	775.9	769.8
5°	760.5	763.6	800.8	819.3	819.3
7.5°	754.2	775.9	827.1	851.8	856.5
10°	746.6	786.8	847.3	879.8	887.6
12.5°	737.2	794.5	864.3	899.9	909.2
15°	724.9	796.1	875.1	913.8	923.2
17.5°	710.9	793.1	878.2	920.1	929.3
20°	693.9	786.8	876.7	918.5	929.3
22.5°	675.3	775.9	867.3	909.2	921.6
25°	653.6	760.5	853.4	893.7	904.6
27.5°	631.9	738.8	833.3	870.4	881.3
30°	605.7	715.6	807.0	842.6	850.3
32.5°	577.7	687.7	775.9	808.5	814.7
35°	548.3	656.7	740.3	766.7	772.8
37.5°	515.7	621.1	700.0	723.3	724.9
40°	484.8	585.5	658.3	676.9	675.3
42.5°	452.3	549.9	616.5	628.8	628.8
45°	418.1	512.6	574.6	580.8	576.2
47.5°	385.6	478.6	534.3	535.9	531.2
50°	353.1	444.5	497.2	492.6	486.4
52.5°	322.2	412.0	460.0	450.7	444.5
55°	292.7	384.1	425.9	413.6	407.3
57.5°	266.4	356.3	395.0	379.5	373.3
60°	241.6	329.9	363.9	346.9	340.8
62.5°	218.4	305.2	336.1	316.0	306.7
65°	196.8	281.9	309.7	285.0	274.1
67.5°	176.5	258.6	283.5	252.4	243.2
70°	156.5	235.4	254.0	221.5	212.2
72.5°	136.3	212.2	226.1	190.5	181.2
75°	117.7	189.0	192.1	161.0	153.4
77.5°	97.6	168.8	162.6	133.2	125.4
80°	77.5	142.5	130.1	105.3	100.7
82.5°	57.3	111.5	99.2	79.0	75.9
85°	37.2	80.6	68.1	52.6	51.1
87.5°	18.6	43.4	34.1	26.4	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)