

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: P183882

Luminaire Tested: **22SR-LD2-25-S-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183882  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P32591)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22SR-LD2-25-S-UNV-L830-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 2X2 TROFFER  
  
Light Source: EATON LED 3000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2493.5 lumens  
Efficiency: N/A  
Efficacy: 127.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.61 / 1.54  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

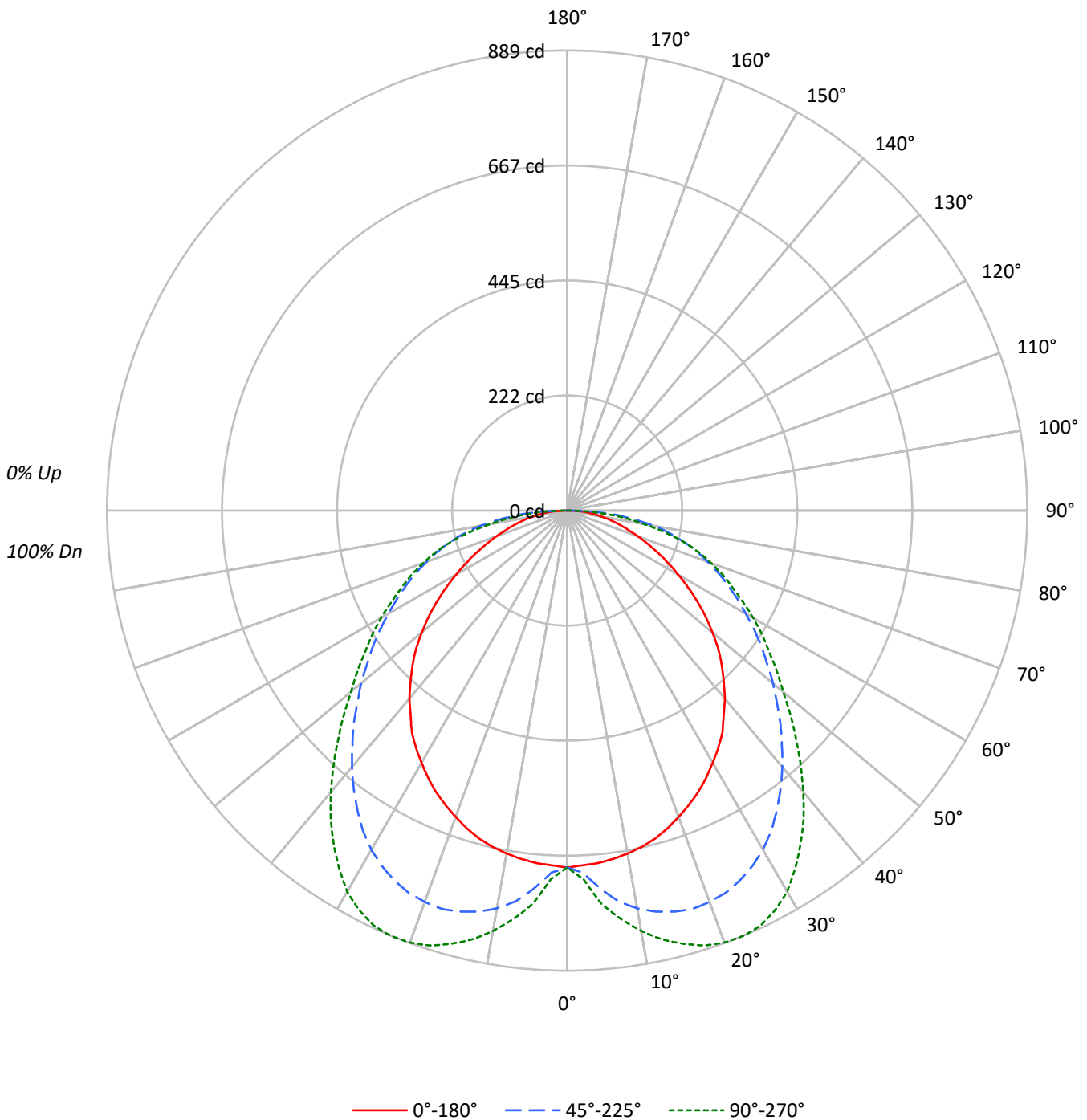
Input Watts (W): 19.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1855	1855	1855
5°	1846	1979	2060
10°	1838	2132	2253
15°	1828	2234	2414
20°	1803	2304	2544
25°	1781	2342	2627
30°	1748	2351	2641
35°	1718	2320	2583
40°	1665	2271	2493
45°	1608	2218	2382
50°	1533	2175	2280
55°	1443	2151	2235
60°	1334	2145	2236
65°	1235	2187	2248
70°	1149	2270	2327
75°	1082	2427	2414
80°	1038	2634	2356
85°	1145	2884	2328



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.6	2.8
10°-20°	222.3	8.9
20°-30°	354.7	14.2
30°-40°	426.9	17.1
40°-50°	428.2	17.2
50°-60°	382.8	15.4
60°-70°	310.1	12.4
70°-80°	215.9	8.7
80°-90°	82.1	3.3
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°	647.6	26.0
0°-40°	1074.5	43.1
0°-60°	1885.4	75.6
0°-90°	2493.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2493.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	690	690	690	690	690	
5°	684	699	733	756	762	65
15°	656	733	802	850	867	185
25°	600	694	789	859	885	276
35°	523	606	706	768	786	326
45°	422	494	583	618	626	325
55°	308	385	458	473	476	275
65°	194	284	344	348	353	193
75°	104	192	233	232	232	111
85°	37	83	93	80	75	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	689.5	689.5	689.5	689.5	689.5
2.5°	685.9	689.5	700.2	709.8	712.2
5°	683.5	699.0	732.6	756.5	762.5
7.5°	678.7	711.0	761.3	786.4	796.0
10°	672.7	724.2	780.4	812.8	824.7
12.5°	665.5	732.6	793.6	834.3	848.7
15°	656.0	732.6	802.0	849.9	866.6
17.5°	644.0	729.0	806.8	860.6	881.0
20°	629.6	721.8	804.4	866.6	888.2
22.5°	615.3	709.8	799.6	866.6	889.4
25°	599.7	694.3	788.8	859.4	884.6
27.5°	581.7	676.3	774.5	846.3	870.2
30°	562.6	654.8	756.5	827.1	849.9
32.5°	543.4	630.8	733.8	800.8	819.9
35°	523.1	605.7	706.2	768.5	786.4
37.5°	496.8	577.0	677.5	733.8	750.5
40°	474.0	550.6	646.4	696.7	709.8
42.5°	447.7	521.9	614.1	657.2	667.9
45°	422.5	494.4	582.9	617.6	626.0
47.5°	396.2	465.6	549.4	578.1	585.3
50°	366.3	438.1	519.5	543.4	544.6
52.5°	337.6	411.8	487.2	506.3	511.1
55°	307.6	385.4	458.4	472.8	476.4
57.5°	277.7	360.3	428.5	440.5	446.5
60°	247.8	334.0	398.6	409.4	415.4
62.5°	220.2	308.8	371.1	378.3	383.0
65°	193.9	283.7	343.5	348.3	353.1
67.5°	168.8	260.9	317.2	319.6	325.6
70°	146.0	238.2	288.5	290.9	295.7
72.5°	123.3	214.3	262.1	260.9	265.7
75°	104.1	191.5	233.4	232.2	232.2
77.5°	86.2	167.6	203.5	196.3	192.7
80°	67.0	142.4	170.0	155.6	152.0
82.5°	52.7	113.7	131.7	117.3	113.7
85°	37.1	82.6	93.4	80.2	75.4
87.5°	19.2	44.3	47.9	40.7	34.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)