

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: P183884

Luminaire Tested: **22SR-LD2-25-S-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183884
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-L840-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X2 TROFFER

Light Source: EATON LED 4000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2622.1 lumens
Efficiency: N/A
Efficacy: 133.8 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

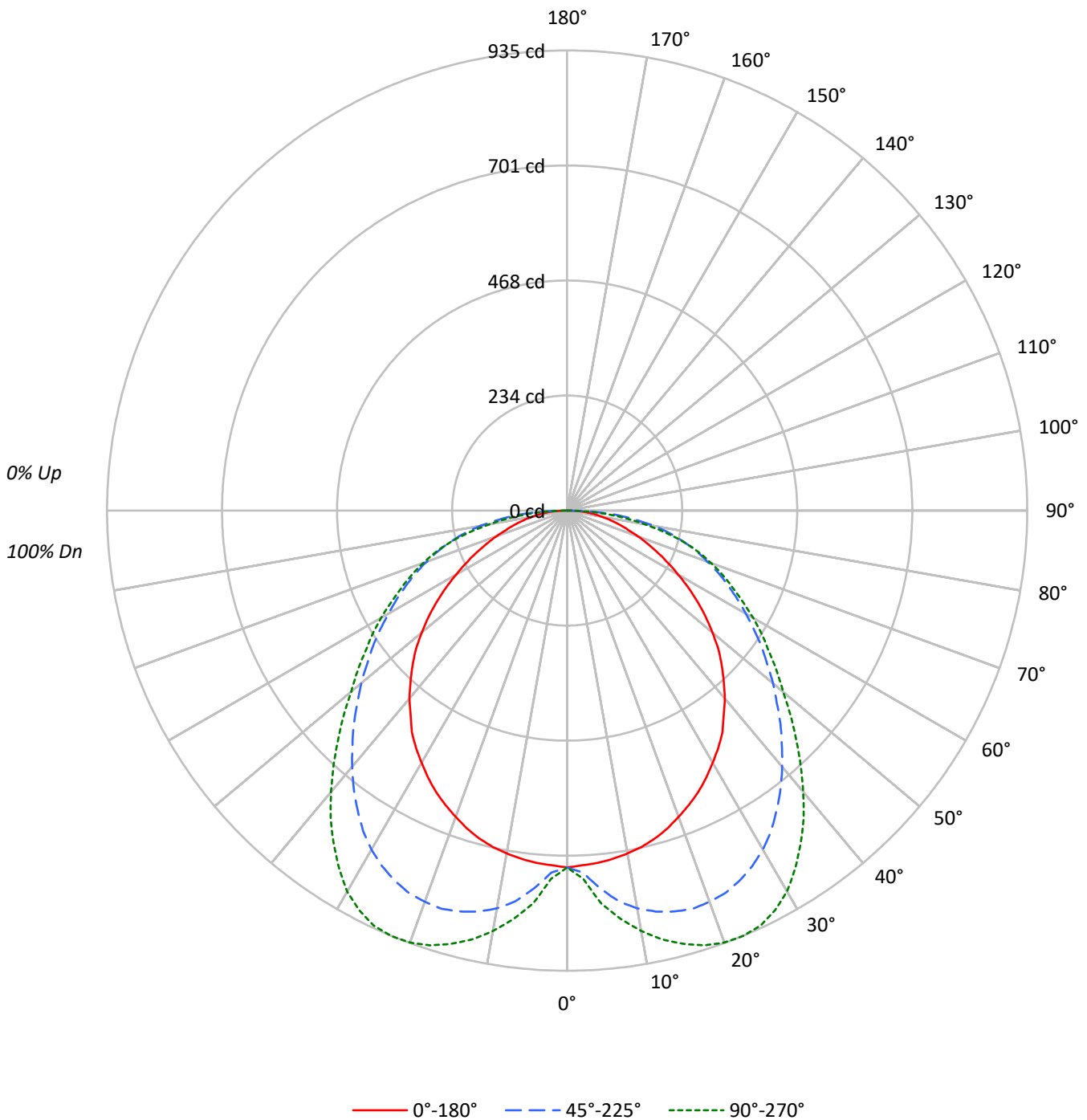
Input Watts (W): 19.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1951	1951	1951
5°	1941	2081	2166
10°	1933	2243	2370
15°	1922	2349	2539
20°	1896	2422	2675
25°	1872	2463	2762
30°	1838	2472	2777
35°	1807	2439	2717
40°	1751	2388	2622
45°	1691	2333	2505
50°	1613	2287	2398
55°	1518	2262	2350
60°	1403	2256	2351
65°	1298	2300	2364
70°	1209	2386	2446
75°	1138	2551	2539
80°	1093	2769	2478
85°	1204	3032	2448



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.2	2.8
10°-20°	233.8	8.9
20°-30°	372.9	14.2
30°-40°	448.9	17.1
40°-50°	450.2	17.2
50°-60°	402.5	15.4
60°-70°	326.1	12.4
70°-80°	227.0	8.7
80°-90°	86.4	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°	680.9	26.0
0°-40°	1129.9	43.1
0°-60°	1982.6	75.6
0°-90°	2622.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2622.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	725	725	725	725	725	
5°	719	735	770	796	802	68
15°	690	770	843	894	911	194
25°	631	730	830	904	930	290
35°	550	637	743	808	827	343
45°	444	520	613	650	658	342
55°	324	405	482	497	501	289
65°	204	298	361	366	371	203
75°	110	201	245	244	244	117
85°	39	87	98	84	79	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	725.0	725.0	725.0	725.0	725.0
2.5°	721.2	725.0	736.3	746.4	748.9
5°	718.7	735.1	770.3	795.5	801.8
7.5°	713.7	747.7	800.5	827.0	837.0
10°	707.4	761.5	820.7	854.7	867.2
12.5°	699.8	770.3	834.5	877.3	892.4
15°	689.8	770.3	843.3	893.7	911.3
17.5°	677.2	766.5	848.4	905.0	926.4
20°	662.1	759.0	845.8	911.3	934.0
22.5°	647.0	746.4	840.8	911.3	935.2
25°	630.6	730.0	829.5	903.7	930.2
27.5°	611.7	711.2	814.4	889.9	915.1
30°	591.6	688.5	795.5	869.8	893.7
32.5°	571.4	663.3	771.6	842.1	862.2
35°	550.1	636.9	742.6	808.1	827.0
37.5°	522.4	606.7	712.4	771.6	789.2
40°	498.4	579.0	679.7	732.6	746.4
42.5°	470.8	548.8	645.7	691.0	702.4
45°	444.3	519.8	613.0	649.5	658.3
47.5°	416.6	489.6	577.7	608.0	615.5
50°	385.2	460.7	546.3	571.4	572.7
52.5°	355.0	433.0	512.3	532.4	537.5
55°	323.5	405.3	482.1	497.2	501.0
57.5°	292.0	378.9	450.6	463.2	469.5
60°	260.6	351.2	419.1	430.5	436.8
62.5°	231.6	324.7	390.2	397.7	402.8
65°	203.9	298.3	361.2	366.3	371.3
67.5°	177.5	274.4	333.6	336.1	342.4
70°	153.6	250.5	303.3	305.9	310.9
72.5°	129.6	225.3	275.7	274.4	279.4
75°	109.5	201.4	245.4	244.2	244.2
77.5°	90.6	176.2	214.0	206.4	202.7
80°	70.5	149.8	178.7	163.6	159.9
82.5°	55.4	119.6	138.5	123.4	119.6
85°	39.0	86.9	98.2	84.3	79.3
87.5°	20.1	46.6	50.3	42.8	36.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)