

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: P183915

Luminaire Tested: **14SR-LD2-25-C-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183915
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-LD2-25-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: 2786.1 lumens
Efficiency: N/A
Efficacy: 133.3 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

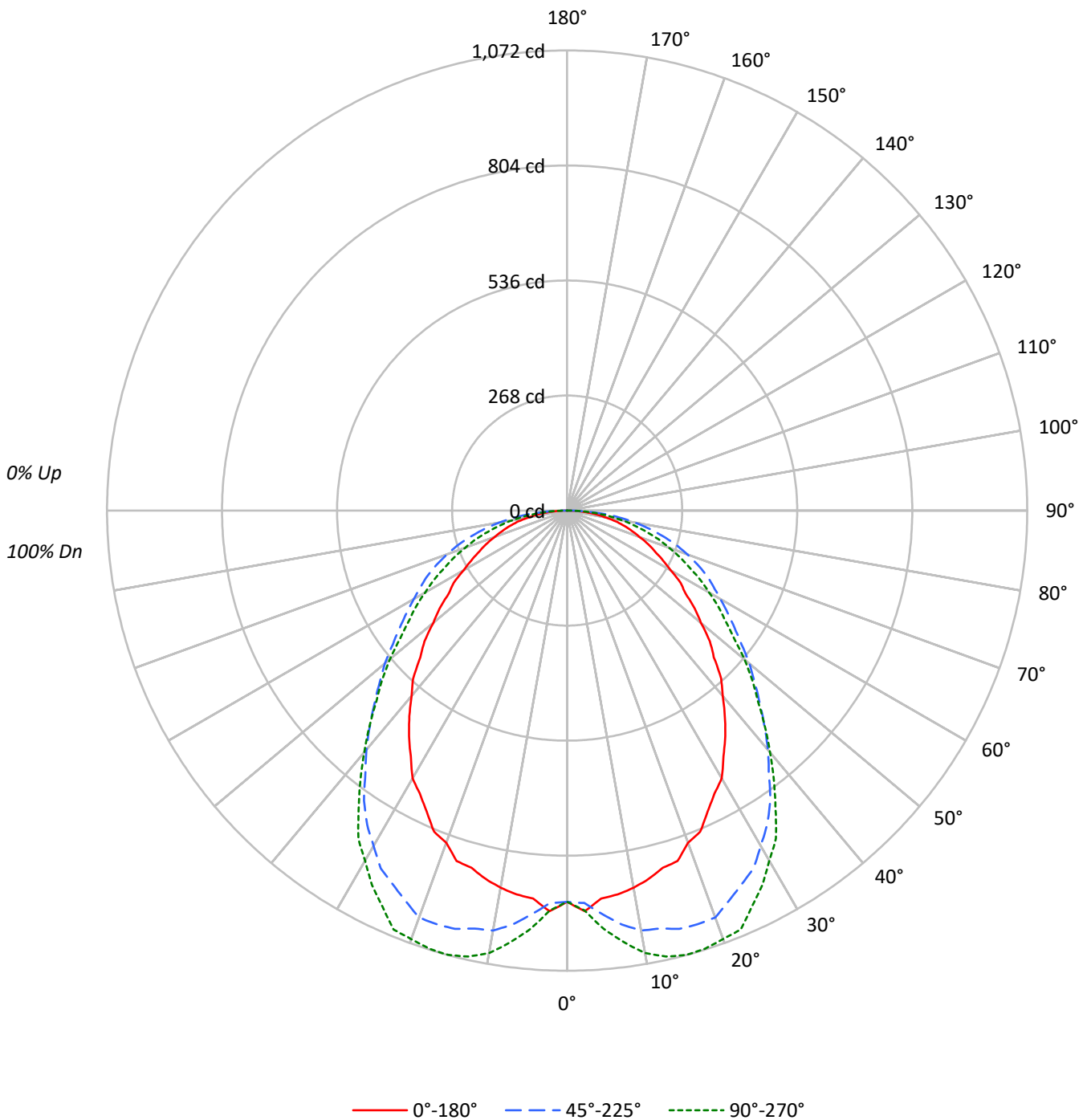
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2452	2452	2452
5°	2451	2549	2642
10°	2438	2714	2861
15°	2400	2810	2986
20°	2358	2889	3042
25°	2297	2853	3023
30°	2238	2802	2926
35°	2109	2711	2780
40°	1980	2557	2584
45°	1839	2414	2392
50°	1703	2319	2255
55°	1577	2232	2115
60°	1501	2221	2056
65°	1435	2287	2007
70°	1413	2345	1984
75°	1430	2404	1986
80°	1392	2487	2013
85°	1355	2535	2007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	3.3
10°-20°	282.0	10.1
20°-30°	434.2	15.6
30°-40°	497.0	17.8
40°-50°	469.8	16.9
50°-60°	399.0	14.3
60°-70°	317.3	11.4
70°-80°	215.1	7.7
80°-90°	79.8	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°	808.0	29.0
0°-40°	1305.0	46.8
0°-60°	2173.9	78.0
0°-90°	2786.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2786.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	911	911	911	911	911	
5°	907	926	944	976	978	86
15°	862	953	1009	1068	1072	244
25°	774	904	961	1012	1018	357
35°	642	772	825	848	846	401
45°	483	598	634	642	628	376
55°	336	438	476	464	451	305
65°	225	323	359	329	315	226
75°	138	222	231	199	191	144
85°	44	94	82	67	65	49
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°	934.2	920.8	915.1	934.2	932.3
5°	907.4	926.5	943.7	976.2	978.1
7.5°	901.7	945.6	972.4	1012.5	1014.4
10°	892.2	949.5	993.4	1041.2	1046.9
12.5°	878.8	953.3	997.2	1056.5	1064.1
15°	861.6	953.3	1008.7	1067.9	1071.7
17.5°	855.9	953.3	1010.6	1062.2	1069.8
20°	823.4	943.7	1008.7	1054.5	1062.2
22.5°	810.0	926.5	983.9	1039.3	1056.5
25°	773.7	903.6	960.9	1012.5	1018.2
27.5°	743.1	878.8	939.9	983.9	983.9
30°	720.2	848.2	901.7	943.7	941.8
32.5°	678.2	806.2	867.3	899.8	905.5
35°	641.9	771.8	825.3	848.2	846.3
37.5°	603.7	727.9	771.8	798.5	790.9
40°	563.6	683.9	727.9	745.1	735.5
42.5°	531.1	638.1	680.1	691.6	682.0
45°	483.3	598.0	634.3	641.9	628.5
47.5°	450.9	554.0	592.2	592.2	584.6
50°	406.9	512.0	554.0	542.6	538.7
52.5°	374.4	475.7	512.0	502.4	491.0
55°	336.2	437.5	475.7	464.2	450.9
57.5°	313.3	406.9	443.2	429.8	418.4
60°	278.9	376.3	412.6	395.5	382.1
62.5°	252.2	349.6	384.0	363.0	349.6
65°	225.4	322.9	359.2	328.6	315.2
67.5°	204.4	298.0	328.6	296.1	284.6
70°	179.6	269.4	298.0	263.6	252.2
72.5°	158.6	246.4	265.5	231.2	223.5
75°	137.5	221.6	231.2	198.7	191.0
77.5°	116.5	196.8	196.8	168.1	160.5
80°	89.8	168.1	160.5	135.6	129.9
82.5°	68.8	133.7	122.3	101.3	97.4
85°	43.9	93.6	82.1	66.9	65.0
87.5°	21.0	49.7	40.1	32.5	30.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)