

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: P183954

Luminaire Tested: **14SR-LD2-23-S-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183954
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-LD2-23-S-UNV-L840-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2329.7 lumens
Efficiency: N/A
Efficacy: 128.0 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

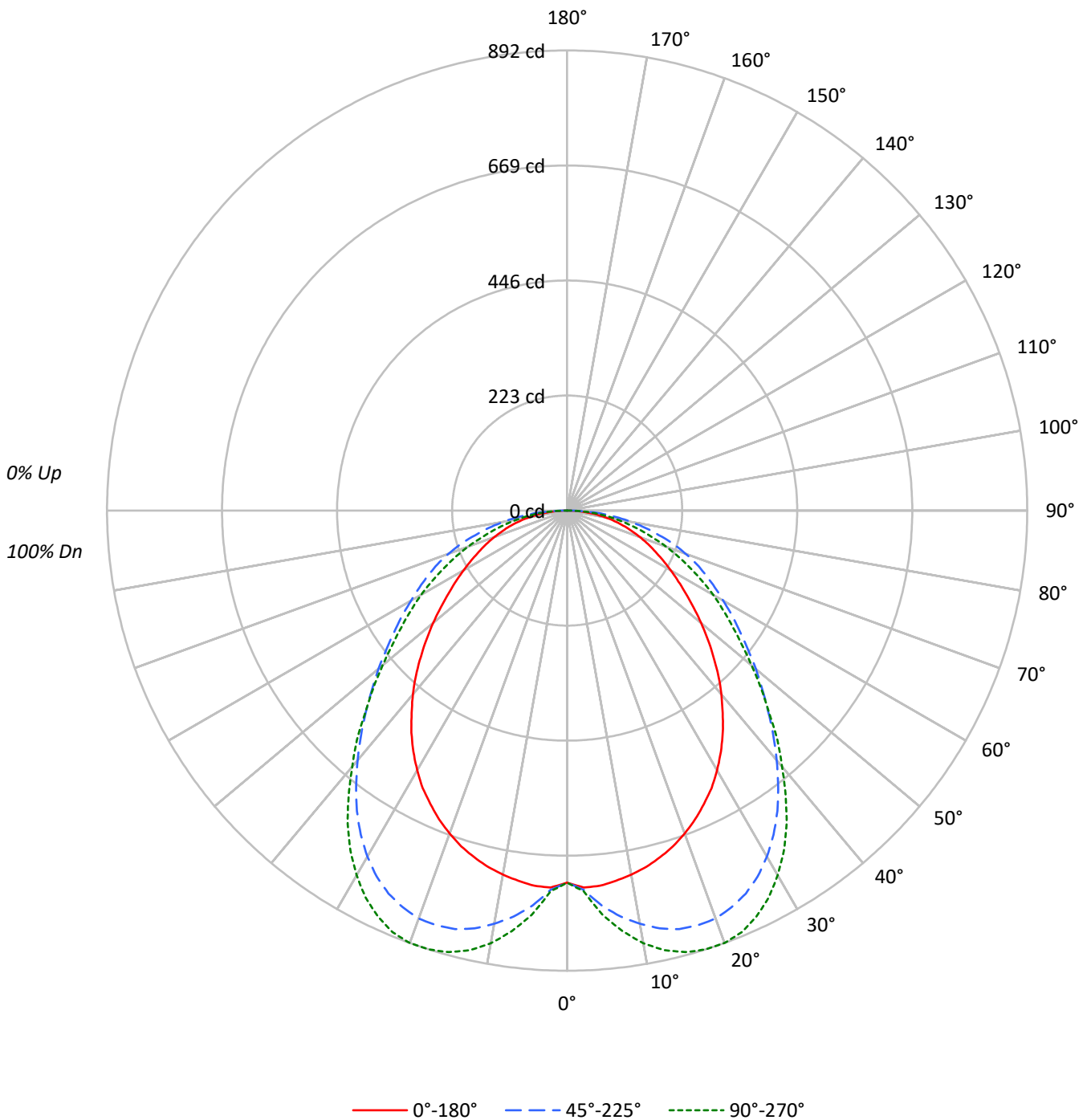
Input Watts (W): 18.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1940	1940	1940
5°	1972	2076	2124
10°	1958	2222	2328
15°	1938	2340	2468
20°	1907	2410	2554
25°	1863	2432	2578
30°	1806	2407	2536
35°	1729	2334	2437
40°	1635	2219	2277
45°	1527	2099	2105
50°	1419	1998	1954
55°	1318	1918	1834
60°	1248	1880	1760
65°	1202	1893	1675
70°	1182	1918	1602
75°	1174	1917	1530
80°	1153	1936	1497
85°	1102	2019	1516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	3.2
10°-20°	230.9	9.9
20°-30°	362.2	15.5
30°-40°	422.4	18.1
40°-50°	401.8	17.2
50°-60°	339.2	14.6
60°-70°	264.3	11.3
70°-80°	172.4	7.4
80°-90°	62.7	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°	666.9	28.6
0°-40°	1089.2	46.8
0°-60°	1830.3	78.6
0°-90°	2329.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2329.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	721	721	721	721	721	
5°	730	733	769	786	786	69
15°	696	764	840	877	886	196
25°	627	730	819	858	868	289
35°	526	630	711	736	742	328
45°	401	492	552	557	553	310
55°	281	369	409	397	391	253
65°	189	271	297	274	263	188
75°	113	181	184	155	147	119
85°	36	77	65	50	49	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	721.0	721.0	721.0	721.0	721.0
2.5°	731.4	722.5	735.9	744.7	738.8
5°	730.0	732.9	768.6	786.4	786.4
7.5°	723.9	744.7	793.8	817.6	822.1
10°	716.6	755.1	813.2	844.4	851.9
12.5°	707.6	762.6	829.5	863.7	872.7
15°	695.8	764.1	839.9	877.1	886.0
17.5°	682.3	761.2	842.9	883.1	892.0
20°	666.0	755.1	841.5	881.6	892.0
22.5°	648.1	744.7	832.5	872.7	884.5
25°	627.3	730.0	819.1	857.8	868.2
27.5°	606.5	709.1	799.8	835.4	845.8
30°	581.3	686.8	774.5	808.7	816.2
32.5°	554.5	660.1	744.7	776.0	782.0
35°	526.2	630.3	710.6	735.9	741.8
37.5°	495.0	596.1	671.9	694.2	695.8
40°	465.3	561.9	631.8	649.7	648.1
42.5°	434.1	527.7	591.7	603.5	603.5
45°	401.3	492.0	551.5	557.4	553.1
47.5°	370.1	459.4	512.8	514.4	509.9
50°	338.9	426.6	477.3	472.8	466.8
52.5°	309.2	395.4	441.5	432.6	426.6
55°	281.0	368.7	408.8	397.0	390.9
57.5°	255.7	342.0	379.1	364.2	358.3
60°	231.9	316.7	349.3	333.0	327.1
62.5°	209.7	292.9	322.6	303.3	294.3
65°	188.8	270.6	297.3	273.5	263.1
67.5°	169.5	248.2	272.1	242.3	233.4
70°	150.2	226.0	243.8	212.6	203.6
72.5°	130.8	203.6	217.0	182.8	173.9
75°	112.9	181.4	184.4	154.6	147.2
77.5°	93.7	162.0	156.1	127.8	120.4
80°	74.4	136.8	124.9	101.1	96.6
82.5°	55.0	107.0	95.2	75.8	72.8
85°	35.7	77.3	65.4	50.5	49.1
87.5°	17.9	41.6	32.8	25.3	23.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)