

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: P183909

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183909
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-LD2-23-C-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: 2336.8 lumens
Efficiency: N/A
Efficacy: 128.4 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

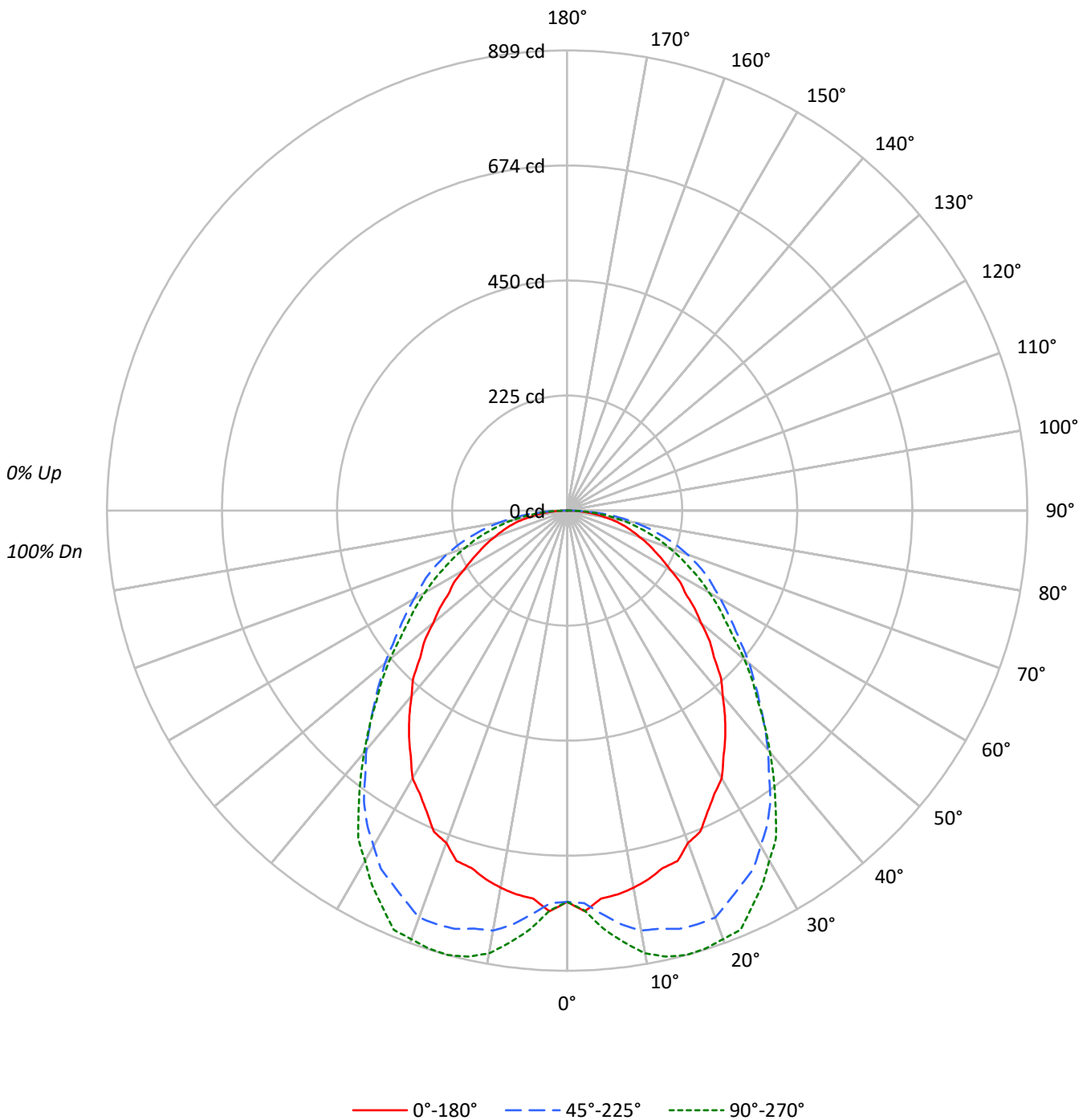
Input Watts (W): 18.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2057	2057	2057
5°	2056	2138	2216
10°	2045	2277	2399
15°	2013	2357	2504
20°	1978	2423	2551
25°	1927	2393	2536
30°	1877	2350	2454
35°	1769	2274	2332
40°	1661	2145	2167
45°	1543	2025	2006
50°	1429	1945	1892
55°	1323	1872	1774
60°	1259	1863	1725
65°	1204	1918	1684
70°	1185	1967	1664
75°	1200	2016	1666
80°	1167	2086	1689
85°	1139	2127	1683



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	3.3
10°-20°	236.5	10.1
20°-30°	364.2	15.6
30°-40°	416.9	17.8
40°-50°	394.1	16.9
50°-60°	334.7	14.3
60°-70°	266.1	11.4
70°-80°	180.4	7.7
80°-90°	66.9	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°	677.7	29.0
0°-40°	1094.6	46.8
0°-60°	1823.3	78.0
0°-90°	2336.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2336.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	764	764	764	764	764	
5°	761	777	792	819	820	72
15°	723	800	846	896	899	205
25°	649	758	806	849	854	299
35°	538	647	692	711	710	336
45°	405	502	532	538	527	315
55°	282	367	399	389	378	256
65°	189	271	301	276	264	189
75°	115	186	194	167	160	121
85°	37	78	69	56	54	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	764.3	764.3	764.3	764.3	764.3
2.5°	783.5	772.3	767.5	783.5	781.9
5°	761.1	777.1	791.6	818.8	820.4
7.5°	756.3	793.2	815.6	849.2	850.8
10°	748.3	796.4	833.2	873.3	878.1
12.5°	737.1	799.6	836.4	886.1	892.5
15°	722.7	799.6	846.0	895.7	898.9
17.5°	717.8	799.6	847.6	890.9	897.3
20°	690.6	791.6	846.0	884.5	890.9
22.5°	679.4	777.1	825.2	871.7	886.1
25°	648.9	757.9	806.0	849.2	854.0
27.5°	623.3	737.1	788.3	825.2	825.2
30°	604.1	711.4	756.3	791.6	789.9
32.5°	568.8	676.2	727.5	754.7	759.5
35°	538.4	647.3	692.2	711.4	709.8
37.5°	506.3	610.5	647.3	669.8	663.4
40°	472.7	573.6	610.5	624.9	616.9
42.5°	445.4	535.2	570.4	580.0	572.0
45°	405.4	501.5	532.0	538.4	527.2
47.5°	378.2	464.7	496.7	496.7	490.3
50°	341.3	429.4	464.7	455.1	451.9
52.5°	314.1	399.0	429.4	421.4	411.8
55°	282.0	366.9	399.0	389.4	378.2
57.5°	262.8	341.3	371.7	360.5	350.9
60°	233.9	315.7	346.1	331.7	320.5
62.5°	211.5	293.2	322.1	304.4	293.2
65°	189.1	270.8	301.2	275.6	264.4
67.5°	171.4	250.0	275.6	248.4	238.7
70°	150.6	225.9	250.0	221.1	211.5
72.5°	133.0	206.7	222.7	193.9	187.5
75°	115.4	185.9	193.9	166.6	160.2
77.5°	97.7	165.0	165.0	141.0	134.6
80°	75.3	141.0	134.6	113.8	109.0
82.5°	57.7	112.2	102.5	84.9	81.7
85°	36.9	78.5	68.9	56.1	54.5
87.5°	17.6	41.7	33.6	27.2	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)