

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: P183969

Luminaire Tested: **14SR-LD2-32-S-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183969
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-LD2-32-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: 3312.1 lumens
Efficiency: N/A
Efficacy: 125.9 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

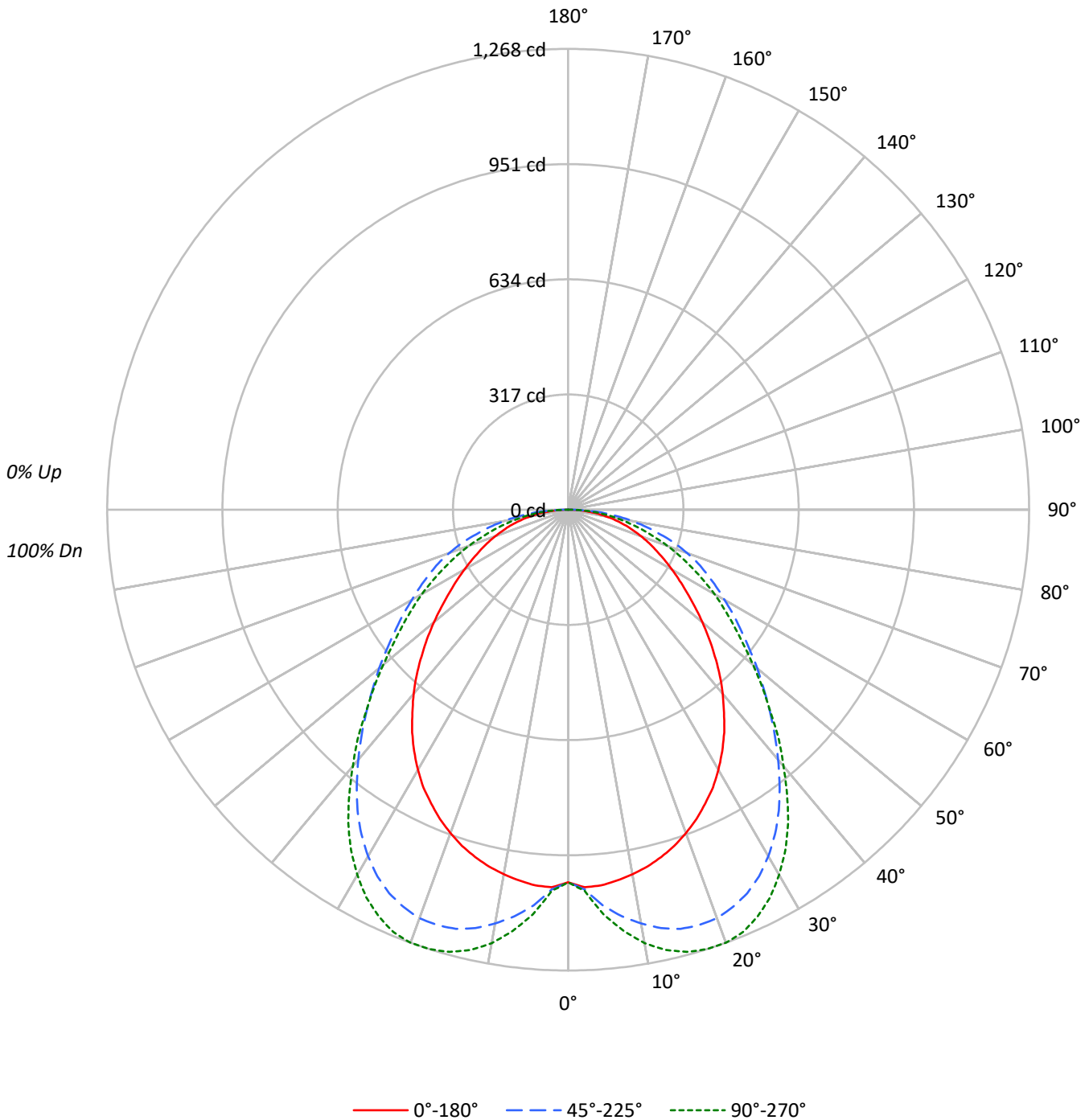
Input Watts (W): 26.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2758	2758	2758
5°	2803	2952	3020
10°	2784	3159	3309
15°	2756	3327	3509
20°	2711	3426	3631
25°	2648	3458	3665
30°	2568	3421	3605
35°	2458	3319	3464
40°	2324	3155	3237
45°	2171	2984	2992
50°	2017	2840	2779
55°	1874	2727	2608
60°	1774	2673	2503
65°	1710	2691	2381
70°	1680	2727	2278
75°	1669	2725	2176
80°	1638	2751	2128
85°	1568	2871	2155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	3.2
10°-20°	328.2	9.9
20°-30°	514.9	15.5
30°-40°	600.4	18.1
40°-50°	571.3	17.2
50°-60°	482.3	14.6
60°-70°	375.8	11.3
70°-80°	245.0	7.4
80°-90°	89.2	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°	948.0	28.6
0°-40°	1548.5	46.8
0°-60°	2602.1	78.6
0°-90°	3312.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3312.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1025	1025	1025	1025	1025	
5°	1038	1042	1093	1118	1118	98
15°	989	1086	1194	1247	1260	279
25°	892	1038	1164	1220	1234	411
35°	748	896	1010	1046	1055	467
45°	571	700	784	792	786	441
55°	399	524	581	564	556	359
65°	268	385	423	389	374	267
75°	160	258	262	220	209	169
85°	51	110	93	72	70	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1025.0	1025.0	1025.0	1025.0	1025.0
2.5°	1039.8	1027.1	1046.1	1058.8	1050.3
5°	1037.7	1041.9	1092.7	1117.9	1117.9
7.5°	1029.2	1058.8	1128.5	1162.3	1168.7
10°	1018.7	1073.5	1156.1	1200.5	1211.1
12.5°	1006.0	1084.1	1179.3	1227.9	1240.6
15°	989.2	1086.3	1194.1	1246.9	1259.6
17.5°	970.0	1082.1	1198.3	1255.4	1268.0
20°	946.8	1073.5	1196.3	1253.3	1268.0
22.5°	921.4	1058.8	1183.5	1240.6	1257.5
25°	891.8	1037.7	1164.5	1219.5	1234.3
27.5°	862.2	1008.2	1137.1	1187.7	1202.5
30°	826.4	976.4	1101.1	1149.7	1160.3
32.5°	788.3	938.4	1058.8	1103.1	1111.7
35°	748.1	896.0	1010.2	1046.1	1054.6
37.5°	703.7	847.4	955.2	987.0	989.2
40°	661.5	798.9	898.2	923.6	921.4
42.5°	617.1	750.3	841.2	858.0	858.0
45°	570.6	699.5	784.1	792.5	786.2
47.5°	526.2	653.1	729.1	731.3	724.9
50°	481.8	606.5	678.5	672.1	663.7
52.5°	439.6	562.2	627.7	614.9	606.5
55°	399.4	524.2	581.2	564.3	555.8
57.5°	363.5	486.2	539.0	517.8	509.4
60°	329.7	450.2	496.6	473.4	465.0
62.5°	298.1	416.4	458.6	431.2	418.4
65°	268.5	384.6	422.6	388.8	374.0
67.5°	240.9	352.9	386.8	344.5	331.8
70°	213.5	321.3	346.6	302.3	289.5
72.5°	185.9	289.5	308.5	259.9	247.3
75°	160.5	257.9	262.1	219.7	209.3
77.5°	133.1	230.3	221.9	181.7	171.1
80°	105.7	194.5	177.5	143.7	137.3
82.5°	78.2	152.1	135.3	107.8	103.6
85°	50.8	109.9	93.0	71.8	69.8
87.5°	25.4	59.2	46.6	36.0	33.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)