

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: P232620

Luminaire Tested: **4SKB1-LD5-4-N-UNV-L850-CD1-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-317-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SKB1-LD5-4-N-UNV-L850-CD1-RS-U
Description: METALUX SKYBAR 4' WAVESTREAM STRIP
WITH NARROW LENS AND REFLECTOR
Light Source: (196) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4387.1 lumens
Efficiency: N/A
Efficacy: 151.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.5 / 1.49
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.29')
CIE Type: Direct

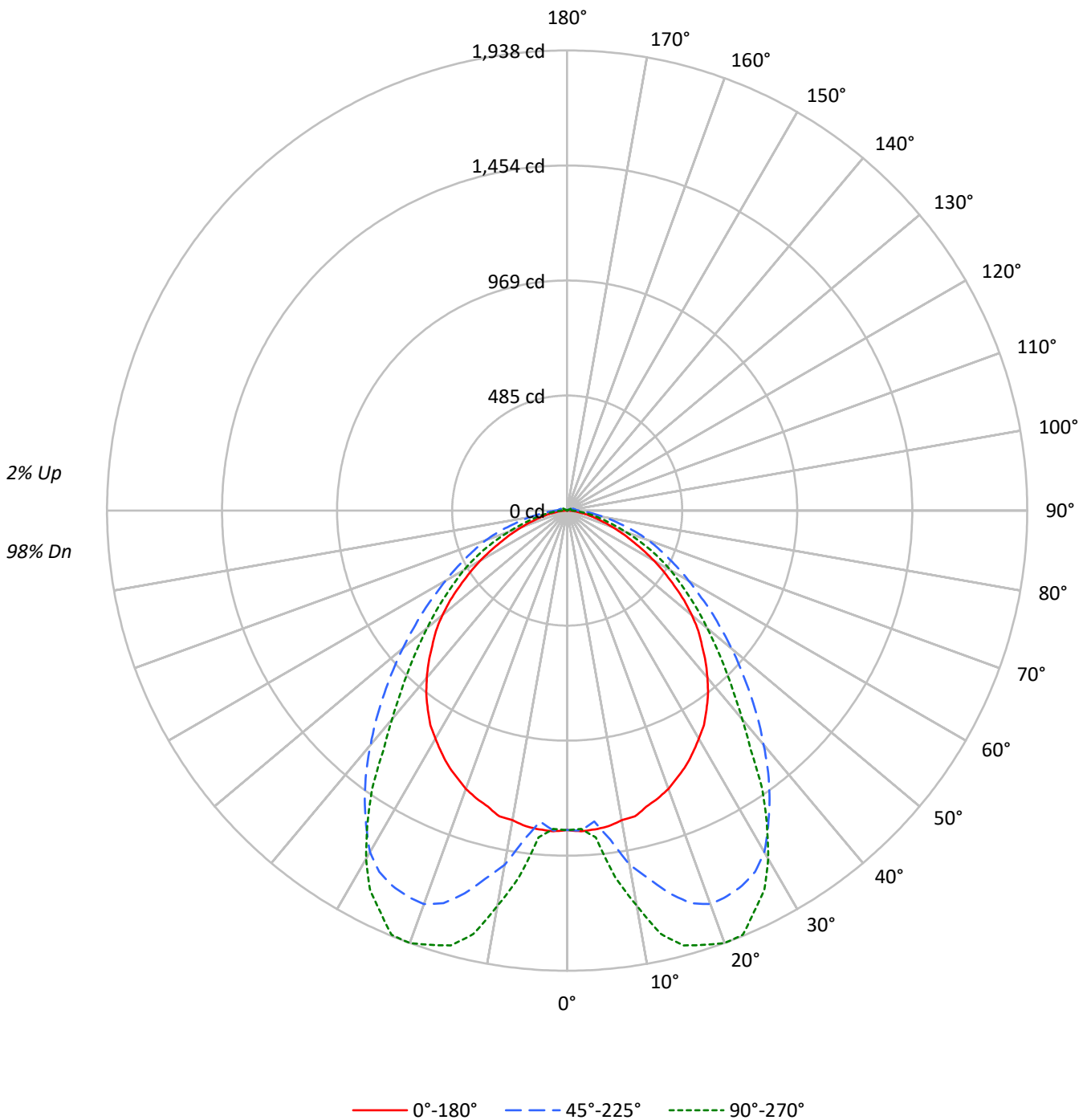
Input Watts (W): 29
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	110	110	105	105	105	100	100	100	98
1	109	104	100	97	106	102	98	95	97	94	92	93	91	88	89	87	85	83
2	100	92	85	80	97	90	84	79	86	81	77	82	78	75	79	76	73	71
3	91	81	73	67	89	80	72	67	76	70	65	73	68	64	71	66	63	60
4	84	72	64	58	82	71	63	57	68	62	56	66	60	55	63	58	54	52
5	77	65	56	50	75	64	56	50	62	54	49	59	53	48	57	52	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	52	47	42	40
7	67	53	45	39	65	53	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	41	35	60	48	40	35	47	40	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	37	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	29	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14483	14483	14483
5°	14471	13185	13543
10°	14288	14330	15323
15°	14106	15059	16098
20°	13915	15316	15581
25°	13611	14698	14332
30°	13229	13708	12575
35°	12793	12102	10361
40°	12174	10425	8143
45°	11394	8833	6606
50°	10563	7413	5392
55°	9350	6151	4405
60°	8085	5050	3580
65°	6649	4132	2773
70°	5336	3339	1969
75°	4116	2434	1312
80°	2982	1647	830
85°	1846	996	447



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.6	3.1
10°-20°	459.4	10.5
20°-30°	753.3	17.2
30°-40°	851.6	19.4
40°-50°	767.2	17.5
50°-60°	604.5	13.8
60°-70°	415.8	9.5
70°-80°	231.8	5.3
80°-90°	94.1	2.1
90°-100°	35.8	0.8
100°-110°	20.0	0.5
110°-120°	10.9	0.2
120°-130°	3.8	0.1
130°-140°	2.6	0.1
140°-150°	1.5	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1347.3	30.7
0°-40°	2198.9	50.1
0°-60°	3570.6	81.4
0°-90°	4312.3	98.3
90°-120°	66.7	1.5
90°-150°	74.6	1.7
90°-180°	75.0	1.7
0°-180°	4387.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1346	1346	1346	1346	1346	
5°	1348	1353	1314	1372	1381	128
15°	1291	1389	1669	1862	1896	365
25°	1185	1433	1743	1873	1863	545
35°	1023	1291	1486	1465	1433	639
45°	803	1003	1089	1006	940	621
55°	550	694	738	674	626	494
65°	302	436	467	428	381	303
75°	126	266	250	200	169	136
85°	27	132	89	66	52	31
90°	1	85	49	32	23	2
95°	0	59	36	24	17	0
105°	0	15	27	23	18	0
115°	0	11	5	18	20	0
125°	1	8	4	4	0	1
135°	1	5	4	4	0	0
145°	1	2	3	4	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1345.5	1345.5	1345.5	1345.5	1345.5
2.5°	1352.0	1349.6	1348.4	1359.8	1341.9
5°	1347.8	1353.2	1313.8	1372.3	1381.3
7.5°	1340.7	1325.2	1398.6	1527.4	1558.5
10°	1324.0	1307.3	1513.7	1656.3	1690.3
12.5°	1319.2	1341.3	1587.7	1779.2	1827.0
15°	1290.6	1389.0	1668.8	1862.2	1896.2
17.5°	1270.9	1423.0	1733.9	1893.8	1917.6
20°	1247.0	1433.2	1763.7	1911.7	1937.9
22.5°	1215.4	1443.3	1758.3	1912.3	1933.8
25°	1185.0	1432.6	1743.4	1872.9	1863.3
27.5°	1148.0	1408.7	1714.8	1813.2	1799.5
30°	1109.2	1383.0	1661.1	1716.6	1693.3
32.5°	1071.6	1344.9	1575.2	1591.9	1565.0
35°	1023.3	1290.6	1486.3	1464.8	1432.6
37.5°	974.3	1226.7	1391.4	1334.7	1270.3
40°	919.4	1154.5	1287.6	1221.3	1146.8
42.5°	862.8	1077.6	1189.1	1108.6	1037.0
45°	803.1	1003.0	1088.9	1006.0	940.3
47.5°	749.4	927.2	994.6	909.3	852.0
50°	685.6	848.4	905.1	822.8	769.7
52.5°	621.1	772.7	816.2	744.0	695.7
55°	550.1	693.9	738.1	673.6	625.9
57.5°	485.1	624.1	658.7	608.0	559.7
60°	423.0	554.3	590.7	542.4	502.4
62.5°	359.2	494.0	528.6	486.3	441.5
65°	301.9	435.6	467.2	428.4	381.3
67.5°	251.2	386.0	414.7	362.8	318.0
70°	203.5	341.9	361.6	303.7	263.1
72.5°	161.1	300.7	307.3	247.0	211.2
75°	125.9	265.5	250.0	199.9	168.9
77.5°	93.7	234.5	201.7	158.7	132.5
80°	68.0	203.5	158.7	121.1	102.0
82.5°	47.1	167.7	121.7	91.3	75.2
85°	27.4	132.5	88.9	66.2	51.9
87.5°	10.1	107.4	65.0	44.7	34.6
90°	1.2	84.7	48.9	32.2	22.7
92.5°	0.6	71.6	40.6	26.8	18.5
95°	0.0	59.1	36.4	24.5	17.3
97.5°	0.0	46.5	33.4	23.9	17.3
100°	0.0	30.4	31.0	22.7	16.7
102.5°	0.0	17.3	29.2	22.7	17.3
105°	0.0	14.9	26.8	23.3	17.9
107.5°	0.0	13.7	23.9	24.5	19.1
110°	0.0	13.1	15.5	25.1	20.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	11.9	6.0	25.7	21.5
115°	0.0	11.3	4.8	17.9	20.3
117.5°	0.0	10.7	4.8	12.5	13.1
120°	0.6	9.5	4.8	3.6	3.6
122.5°	0.6	8.9	4.2	3.6	0.0
125°	0.6	8.4	4.2	3.6	0.0
127.5°	0.6	7.2	4.2	4.2	0.0
130°	0.6	6.6	4.2	3.6	0.0
132.5°	0.6	6.0	4.2	4.2	0.0
135°	0.6	4.8	4.2	4.2	0.0
137.5°	0.6	4.2	3.6	4.2	0.0
140°	0.6	3.6	3.6	4.2	0.0
142.5°	0.6	3.0	3.6	4.2	0.0
145°	0.6	2.4	3.0	3.6	0.0
147.5°	0.6	1.8	3.0	3.6	0.0
150°	0.6	1.8	2.4	3.6	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)