

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: P232606

Luminaire Tested: **4SKB1-LD5-6-W-UNV-L835-CD1-RS-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232606  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-317-7)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SKB1-LD5-6-W-UNV-L835-CD1-RS-U  
Description: METALUX SKYBAR 4' WAVESTREAM STRIP  
WITH WIDE LENS AND REFLECTOR  
Light Source: (196) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5488.0 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.47 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.29')  
CIE Type: Direct

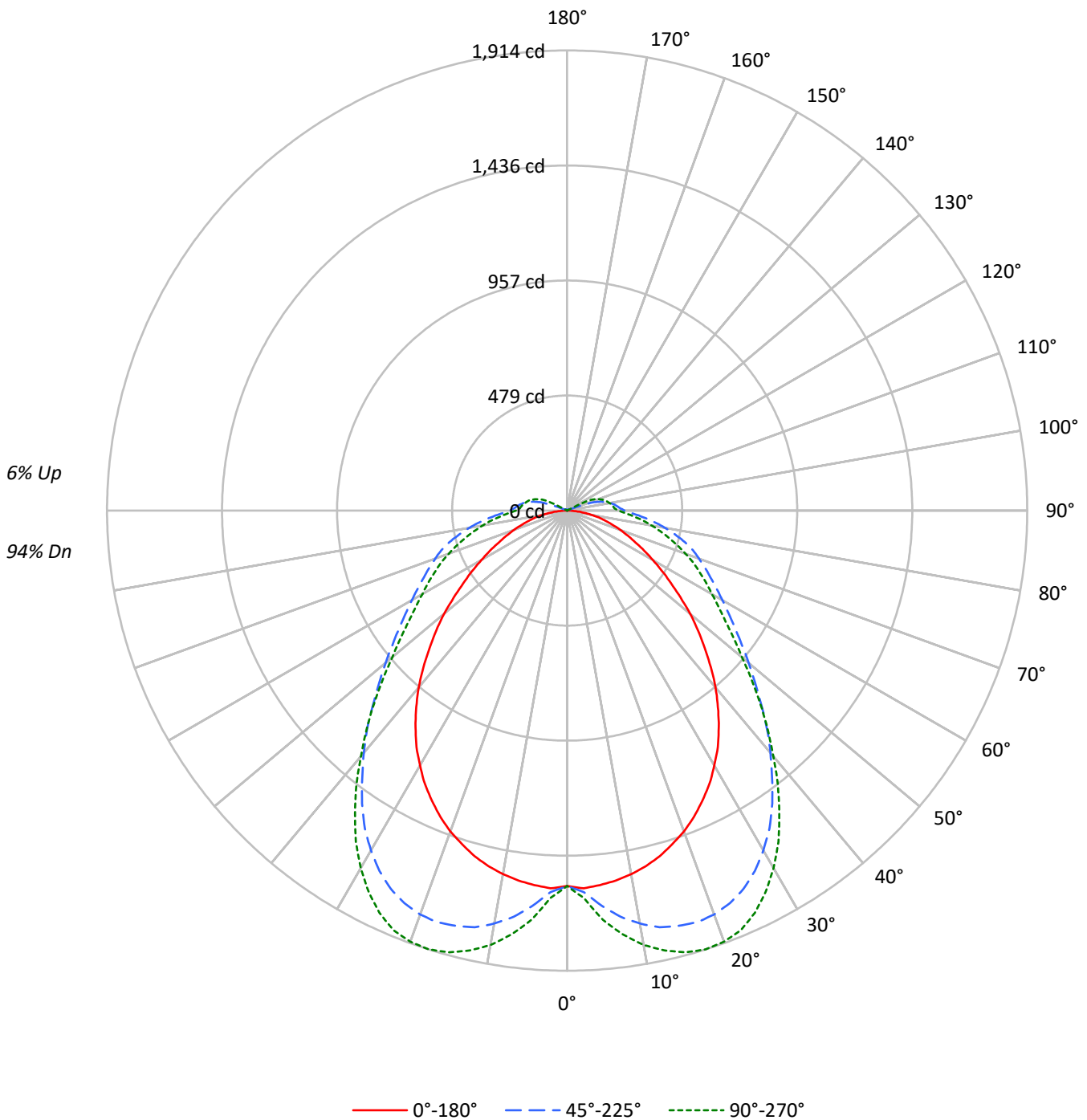
Input Watts (W): 47.16  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	106	101	96	91	103	98	93	89	92	89	85	87	84	82	83	80	78	76
2	96	87	80	74	93	85	78	73	80	75	70	76	72	68	72	69	65	63
3	88	77	68	62	85	75	67	61	71	64	59	67	62	57	64	59	55	53
4	80	68	59	52	78	66	58	52	63	56	50	60	54	49	57	52	48	45
5	74	61	52	45	71	59	51	45	57	49	44	54	48	43	52	46	42	39
6	68	55	46	39	66	54	45	39	51	44	38	49	42	37	47	41	37	34
7	63	50	41	35	61	49	41	35	47	39	34	45	38	33	43	37	33	31
8	59	46	37	31	57	45	37	31	43	36	30	41	35	30	39	34	29	27
9	55	42	34	28	54	41	33	28	39	32	27	38	32	27	37	31	27	25
10	52	39	31	26	50	38	30	25	37	30	25	35	29	25	34	28	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	16805	16805	16805
5°	16788	16557	16758
10°	16566	16513	16632
15°	16263	16138	16149
20°	15850	15523	15340
25°	15286	14637	14200
30°	14601	13468	12748
35°	13748	12109	11126
40°	12718	10650	9472
45°	11479	9257	7983
50°	10282	8073	6649
55°	8964	7095	5660
60°	7858	6374	4959
65°	6885	5817	4422
70°	6167	5389	3923
75°	5401	4937	3395
80°	4534	4284	2901
85°	3018	3548	2398



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.5	2.9
10°-20°	496.1	9.0
20°-30°	772.6	14.1
30°-40°	888.4	16.2
40°-50°	832.3	15.2
50°-60°	700.1	12.8
60°-70°	573.4	10.4
70°-80°	446.5	8.1
80°-90°	287.7	5.2
90°-100°	177.1	3.2
100°-110°	110.1	2.0
110°-120°	36.2	0.7
120°-130°	4.9	0.1
130°-140°	2.3	0.0
140°-150°	0.8	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1428.3	26.0
0°-40°	2316.6	42.2
0°-60°	3848.9	70.1
0°-90°	5156.5	94.0
90°-120°	323.4	5.9
90°-150°	331.4	6.0
90°-180°	331.0	6.0
0°-180°	5488.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1561	1561	1561	1561	1561	
5°	1564	1596	1650	1704	1709	148
15°	1488	1655	1788	1888	1902	419
25°	1331	1573	1736	1836	1846	612
35°	1100	1344	1487	1548	1538	686
45°	809	1034	1141	1161	1136	626
55°	527	755	851	837	804	475
65°	313	558	658	630	608	314
75°	165	425	507	458	437	177
85°	45	280	317	289	278	49
90°	2	194	238	220	213	3
95°	0	147	208	199	192	0
105°	0	30	143	166	164	0
115°	0	20	14	67	102	0
125°	0	12	10	0	0	0
135°	0	6	6	0	0	0
145°	1	2	2	0	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°	1561.2	1561.2	1561.2	1561.2	1561.2
2.5°	1572.6	1575.8	1588.0	1619.8	1613.3
5°	1563.6	1596.2	1649.9	1703.6	1709.3
7.5°	1552.2	1623.9	1704.4	1772.8	1778.5
10°	1535.1	1642.6	1744.3	1827.3	1834.7
12.5°	1514.8	1654.8	1775.2	1866.4	1873.7
15°	1487.9	1654.8	1788.3	1888.4	1902.2
17.5°	1454.5	1648.3	1795.6	1900.6	1913.6
20°	1420.4	1632.8	1787.5	1895.7	1907.9
22.5°	1378.8	1608.4	1767.9	1873.7	1888.4
25°	1330.8	1573.4	1736.2	1836.3	1846.1
27.5°	1282.0	1529.4	1689.8	1780.9	1788.3
30°	1224.2	1474.9	1632.0	1713.4	1716.6
32.5°	1166.4	1417.1	1566.9	1637.7	1635.2
35°	1099.7	1343.8	1487.1	1548.2	1538.4
37.5°	1030.5	1273.0	1400.0	1449.7	1439.9
40°	960.5	1194.9	1315.4	1349.5	1334.1
42.5°	884.8	1113.5	1230.7	1252.7	1234.0
45°	809.1	1034.5	1141.2	1160.7	1136.3
47.5°	739.1	956.4	1059.8	1063.0	1039.4
50°	667.4	885.6	985.7	982.5	949.1
52.5°	594.2	817.2	915.7	907.6	873.4
55°	527.4	755.4	851.4	836.8	804.2
57.5°	468.8	698.4	796.1	773.3	746.4
60°	411.1	646.3	745.6	720.4	695.9
62.5°	361.4	597.4	699.2	673.1	652.0
65°	312.6	557.6	657.7	630.0	608.0
67.5°	271.9	517.7	620.2	589.3	568.1
70°	235.2	484.3	583.6	547.8	524.2
72.5°	199.4	455.0	548.6	500.6	480.2
75°	165.2	424.9	507.1	458.3	437.1
77.5°	135.9	397.2	459.9	413.5	396.4
80°	103.4	368.7	412.7	371.2	356.5
82.5°	73.3	328.0	366.3	328.8	318.3
85°	44.8	280.0	316.6	289.0	278.4
87.5°	19.5	231.2	272.7	249.9	242.6
90°	2.4	194.5	238.5	219.8	213.3
92.5°	0.8	170.9	220.6	205.1	197.8
95°	0.0	147.3	208.4	198.6	192.1
97.5°	0.0	119.7	197.0	192.9	186.4
100°	0.0	77.3	182.3	184.8	179.1
102.5°	0.0	32.6	165.2	175.8	170.9
105°	0.0	30.1	143.3	166.0	163.6
107.5°	0.0	27.7	113.1	153.0	151.4
110°	0.0	25.2	58.6	137.6	138.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	22.8	14.7	117.2	122.1
115°	0.0	20.3	13.8	66.7	101.7
117.5°	0.0	18.7	12.2	0.8	35.0
120°	0.0	16.3	11.4	0.8	0.0
122.5°	0.0	13.8	10.6	0.0	0.0
125°	0.0	12.2	9.8	0.0	0.0
127.5°	0.0	10.6	8.1	0.0	0.0
130°	0.0	9.0	7.3	0.0	0.0
132.5°	0.0	7.3	6.5	0.0	0.0
135°	0.0	5.7	5.7	0.0	0.0
137.5°	0.0	4.9	4.9	0.0	0.0
140°	0.0	3.3	4.1	0.0	0.0
142.5°	0.8	2.4	3.3	0.0	0.0
145°	0.8	1.6	2.4	0.0	0.0
147.5°	0.8	1.6	2.4	0.0	0.0
150°	0.8	0.8	1.6	0.0	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)