

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: P232605

Luminaire Tested: **4SKB1-LD5-5-W-UNV-L850-CD1-RS-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232605  
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-LD5-5-W-UNV-L850-CD1-RS-U  
Description: METALUX SKYBAR 4' WAVESTREAM STRIP  
WITH WIDE LENS AND REFLECTOR  
Light Source: (196) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5063.0 lumens  
Efficiency: N/A  
Efficacy: 133.2 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

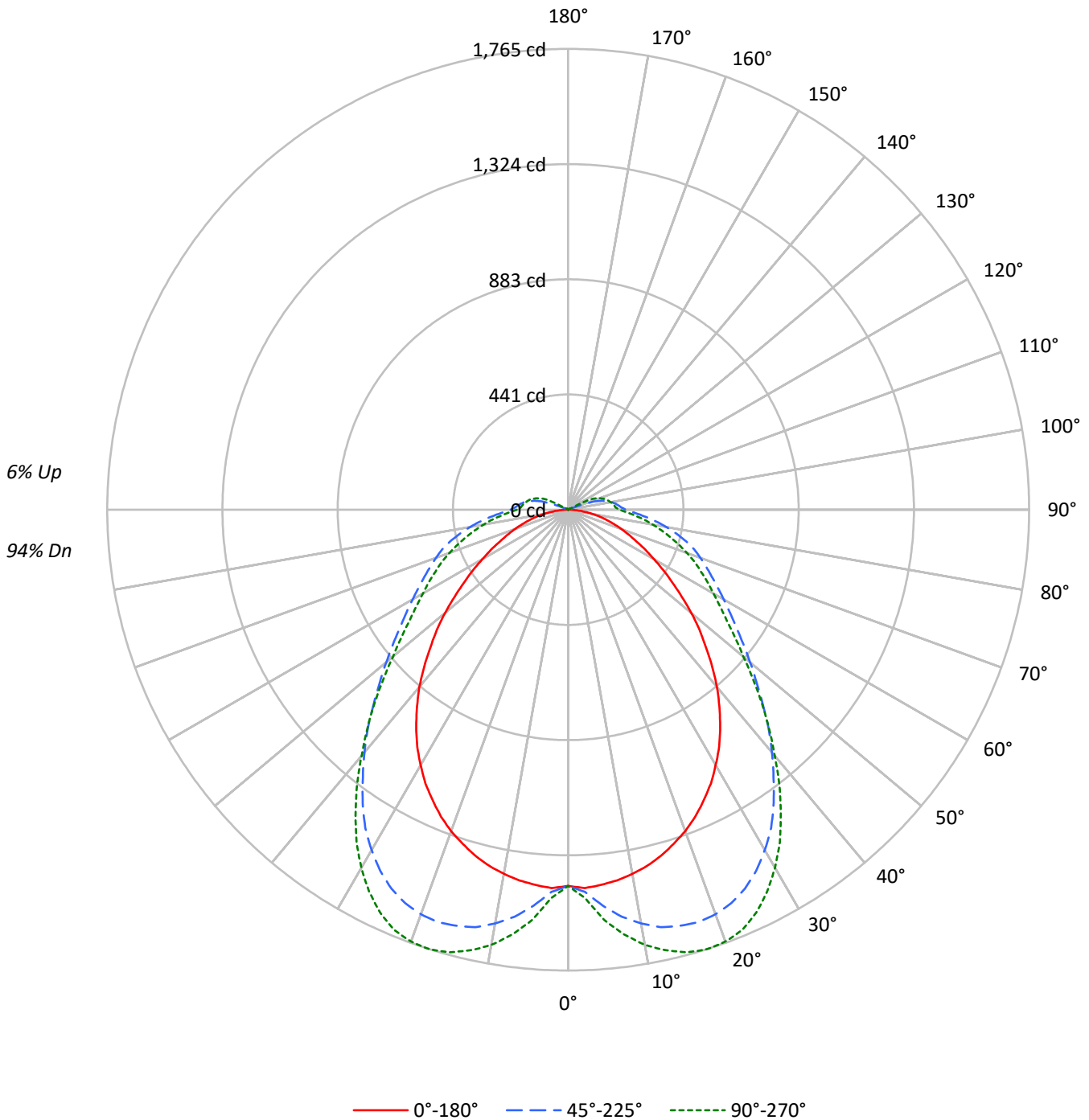
Input Watts (W): 38  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	15503	15503	15503
5°	15487	15275	15460
10°	15283	15234	15344
15°	15004	14888	14898
20°	14622	14320	14153
25°	14103	13503	13100
30°	13470	12425	11761
35°	12683	11171	10265
40°	11733	9825	8739
45°	10590	8540	7365
50°	9488	7448	6134
55°	8270	6546	5222
60°	7248	5880	4575
65°	6352	5366	4079
70°	5689	4971	3619
75°	4982	4555	3132
80°	4183	3952	2677
85°	2782	3274	2212



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.2	2.9
10°-20°	457.7	9.0
20°-30°	712.8	14.1
30°-40°	819.6	16.2
40°-50°	767.8	15.2
50°-60°	645.8	12.8
60°-70°	529.0	10.4
70°-80°	411.9	8.1
80°-90°	265.4	5.2
90°-100°	163.4	3.2
100°-110°	101.6	2.0
110°-120°	33.4	0.7
120°-130°	4.6	0.1
130°-140°	2.1	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°	1317.6	26.0
0°-40°	2137.2	42.2
0°-60°	3550.8	70.1
0°-90°	4757.2	94.0
90°-120°	298.4	5.9
90°-150°	305.8	6.0
90°-180°	306.0	6.0
0°-180°	5063.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1440	1440	1440	1440	1440	
5°	1442	1473	1522	1572	1577	137
15°	1373	1527	1650	1742	1755	386
25°	1228	1452	1602	1694	1703	565
35°	1014	1240	1372	1428	1419	633
45°	746	954	1053	1071	1048	577
55°	487	697	786	772	742	439
65°	288	514	607	581	561	289
75°	152	392	468	423	403	163
85°	41	258	292	267	257	45
90°	2	180	220	203	197	3
95°	0	136	192	183	177	0
105°	0	28	132	153	151	0
115°	0	19	13	62	94	0
125°	0	11	9	0	0	0
135°	0	5	5	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°	1440.3	1440.3	1440.3	1440.3	1440.3
2.5°	1450.8	1453.8	1465.1	1494.3	1488.3
5°	1442.5	1472.6	1522.1	1571.7	1576.9
7.5°	1432.0	1498.1	1572.4	1635.5	1640.8
10°	1416.2	1515.4	1609.2	1685.8	1692.6
12.5°	1397.5	1526.6	1637.8	1721.9	1728.6
15°	1372.7	1526.6	1649.8	1742.1	1754.9
17.5°	1341.9	1520.6	1656.5	1753.4	1765.4
20°	1310.4	1506.4	1649.0	1748.9	1760.2
22.5°	1272.1	1483.8	1631.0	1728.6	1742.1
25°	1227.8	1451.5	1601.7	1694.1	1703.1
27.5°	1182.7	1411.0	1558.9	1643.0	1649.8
30°	1129.4	1360.7	1505.6	1580.7	1583.7
32.5°	1076.1	1307.4	1445.5	1510.9	1508.6
35°	1014.5	1239.8	1371.9	1428.3	1419.3
37.5°	950.7	1174.4	1291.6	1337.4	1328.4
40°	886.1	1102.4	1213.5	1245.0	1230.8
42.5°	816.3	1027.3	1135.4	1155.7	1138.4
45°	746.4	954.4	1052.8	1070.8	1048.3
47.5°	681.8	882.3	977.7	980.7	958.9
50°	615.8	817.0	909.4	906.4	875.6
52.5°	548.2	753.9	844.8	837.3	805.7
55°	486.6	696.9	785.5	772.0	741.9
57.5°	432.5	644.3	734.4	713.4	688.6
60°	379.2	596.2	687.8	664.6	642.0
62.5°	333.4	551.2	645.0	621.0	601.5
65°	288.4	514.4	606.7	581.2	560.9
67.5°	250.8	477.6	572.2	543.7	524.1
70°	217.0	446.8	538.4	505.4	483.6
72.5°	184.0	419.8	506.1	461.8	443.0
75°	152.4	392.0	467.8	422.8	403.2
77.5°	125.4	366.5	424.3	381.5	365.7
80°	95.4	340.2	380.7	342.4	328.9
82.5°	67.6	302.6	337.9	303.4	293.6
85°	41.3	258.3	292.1	266.6	256.8
87.5°	18.0	213.3	251.6	230.5	223.8
90°	2.3	179.5	220.0	202.8	196.7
92.5°	0.8	157.7	203.5	189.2	182.5
95°	0.0	135.9	192.2	183.2	177.2
97.5°	0.0	110.4	181.7	178.0	172.0
100°	0.0	71.3	168.2	170.5	165.2
102.5°	0.0	30.0	152.4	162.2	157.7
105°	0.0	27.8	132.2	153.2	150.9
107.5°	0.0	25.5	104.4	141.2	139.7
110°	0.0	23.3	54.1	126.9	127.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	21.0	13.5	108.1	112.6
115°	0.0	18.8	12.8	61.6	93.9
117.5°	0.0	17.3	11.3	0.8	32.3
120°	0.0	15.0	10.5	0.8	0.0
122.5°	0.0	12.8	9.8	0.0	0.0
125°	0.0	11.3	9.0	0.0	0.0
127.5°	0.0	9.8	7.5	0.0	0.0
130°	0.0	8.3	6.8	0.0	0.0
132.5°	0.0	6.8	6.0	0.0	0.0
135°	0.0	5.3	5.3	0.0	0.0
137.5°	0.0	4.5	4.5	0.0	0.0
140°	0.0	3.0	3.8	0.0	0.0
142.5°	0.8	2.3	3.0	0.0	0.0
145°	0.8	1.5	2.3	0.0	0.0
147.5°	0.8	1.5	2.3	0.0	0.0
150°	0.8	0.8	1.5	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)