

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: P232603

Luminaire Tested: **4SKB1-LD5-5-W-UNV-L835-CD1-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232603
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-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: 4588.0 lumens
Efficiency: N/A
Efficacy: 120.7 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

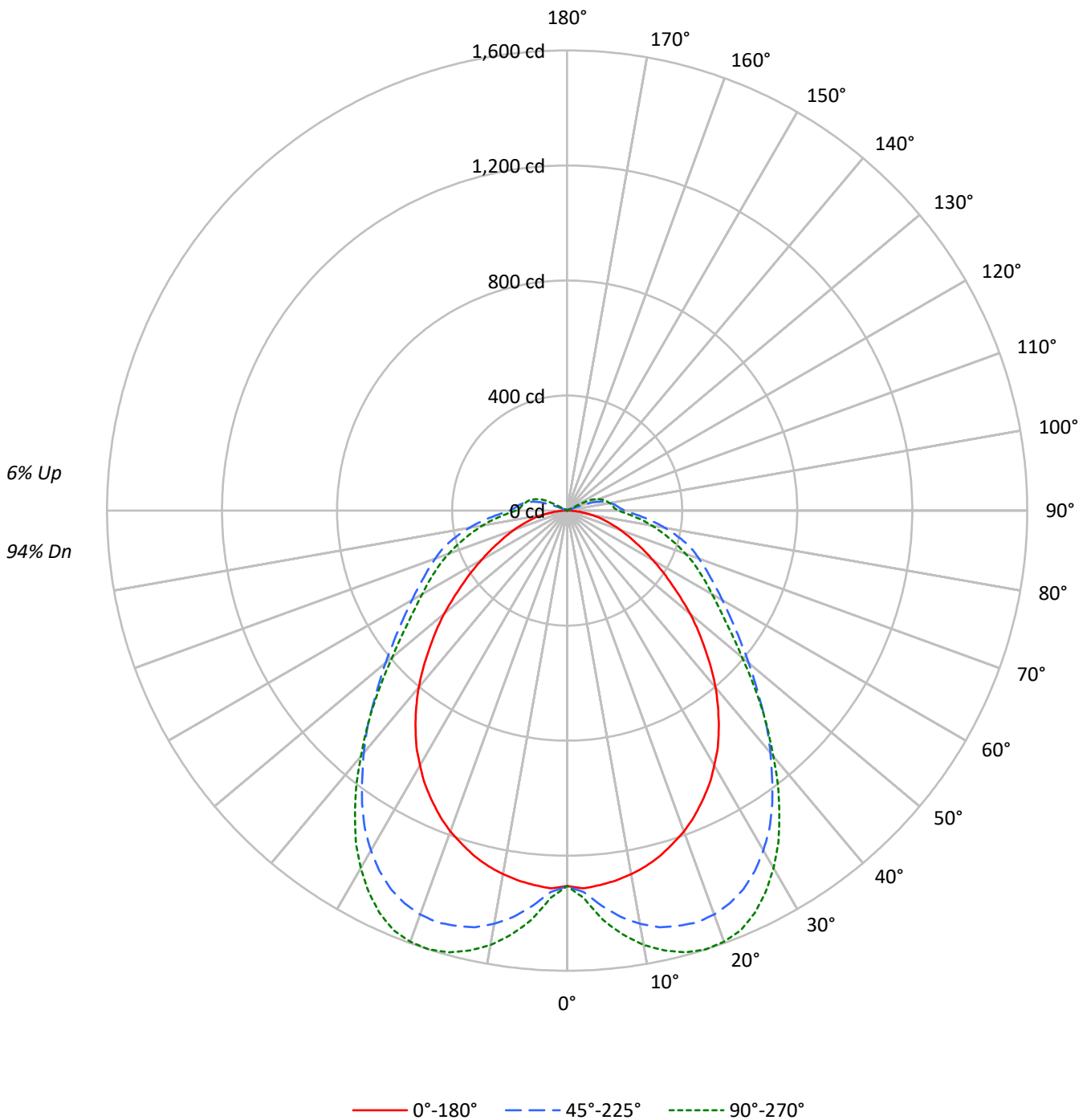
Input Watts (W): 38
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	14049	14049	14049
5°	14035	13842	14010
10°	13849	13805	13904
15°	13596	13491	13501
20°	13250	12977	12824
25°	12779	12237	11871
30°	12206	11260	10658
35°	11493	10123	9301
40°	10633	8903	7919
45°	9597	7739	6674
50°	8597	6749	5558
55°	7494	5932	4732
60°	6567	5328	4146
65°	5755	4863	3697
70°	5157	4505	3279
75°	4515	4127	2838
80°	3789	3581	2425
85°	2519	2967	2005



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.4	2.9
10°-20°	414.7	9.0
20°-30°	645.9	14.1
30°-40°	742.7	16.2
40°-50°	695.8	15.2
50°-60°	585.2	12.8
60°-70°	479.4	10.4
70°-80°	373.2	8.1
80°-90°	240.5	5.2
90°-100°	148.1	3.2
100°-110°	92.0	2.0
110°-120°	30.3	0.7
120°-130°	4.1	0.1
130°-140°	1.9	0.0
140°-150°	0.7	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1194.0	26.0
0°-40°	1936.7	42.2
0°-60°	3217.7	70.1
0°-90°	4310.9	94.0
90°-120°	270.4	5.9
90°-150°	277.1	6.0
90°-180°	277.0	6.0
0°-180°	4588.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1305	1305	1305	1305	1305	
5°	1307	1334	1379	1424	1429	124
15°	1244	1383	1495	1579	1590	350
25°	1113	1315	1452	1535	1543	512
35°	919	1124	1243	1294	1286	574
45°	676	865	954	970	950	523
55°	441	632	712	700	672	398
65°	261	466	550	527	508	262
75°	138	355	424	383	365	148
85°	37	234	265	242	233	41
90°	2	163	199	184	178	3
95°	0	123	174	166	161	0
105°	0	25	120	139	137	0
115°	0	17	12	56	85	0
125°	0	10	8	0	0	0
135°	0	5	5	0	0	0
145°	1	1	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°	1305.2	1305.2	1305.2	1305.2	1305.2
2.5°	1314.7	1317.4	1327.6	1354.1	1348.7
5°	1307.2	1334.4	1379.3	1424.2	1429.0
7.5°	1297.7	1357.5	1424.9	1482.1	1486.8
10°	1283.4	1373.2	1458.3	1527.7	1533.8
12.5°	1266.4	1383.4	1484.1	1560.3	1566.5
15°	1243.9	1383.4	1495.0	1578.7	1590.3
17.5°	1216.0	1378.0	1501.1	1588.9	1599.8
20°	1187.4	1365.0	1494.3	1584.8	1595.0
22.5°	1152.7	1344.6	1478.0	1566.5	1578.7
25°	1112.6	1315.4	1451.5	1535.2	1543.3
27.5°	1071.7	1278.6	1412.7	1488.9	1495.0
30°	1023.4	1233.0	1364.4	1432.4	1435.1
32.5°	975.1	1184.7	1309.9	1369.1	1367.1
35°	919.3	1123.5	1243.2	1294.3	1286.1
37.5°	861.5	1064.3	1170.4	1211.9	1203.8
40°	803.0	998.9	1099.6	1128.2	1115.3
42.5°	739.7	930.9	1028.9	1047.3	1031.6
45°	676.4	864.9	954.0	970.4	949.9
47.5°	617.9	799.6	886.0	888.7	869.0
50°	558.0	740.4	824.1	821.3	793.4
52.5°	496.7	683.2	765.5	758.7	730.2
55°	440.9	631.5	711.8	699.5	672.3
57.5°	392.0	583.8	665.5	646.5	624.0
60°	343.6	540.3	623.3	602.2	581.8
62.5°	302.1	499.5	584.5	562.8	545.1
65°	261.3	466.1	549.8	526.7	508.3
67.5°	227.3	432.8	518.5	492.7	475.0
70°	196.7	404.9	487.9	458.0	438.2
72.5°	166.7	380.4	458.6	418.5	401.5
75°	138.1	355.2	423.9	383.1	365.4
77.5°	113.6	332.1	384.5	345.7	331.4
80°	86.4	308.3	345.0	310.3	298.0
82.5°	61.2	274.2	306.2	274.9	266.1
85°	37.4	234.1	264.7	241.6	232.7
87.5°	16.3	193.3	228.0	208.9	202.8
90°	2.0	162.6	199.4	183.7	178.3
92.5°	0.7	142.9	184.4	171.5	165.4
95°	0.0	123.2	174.2	166.0	160.6
97.5°	0.0	100.0	164.7	161.3	155.8
100°	0.0	64.6	152.4	154.5	149.7
102.5°	0.0	27.2	138.1	147.0	142.9
105°	0.0	25.2	119.8	138.8	136.8
107.5°	0.0	23.1	94.6	127.9	126.6
110°	0.0	21.1	49.0	115.0	115.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	19.1	12.2	98.0	102.1
115°	0.0	17.0	11.6	55.8	85.1
117.5°	0.0	15.7	10.2	0.7	29.3
120°	0.0	13.6	9.5	0.7	0.0
122.5°	0.0	11.6	8.8	0.0	0.0
125°	0.0	10.2	8.2	0.0	0.0
127.5°	0.0	8.8	6.8	0.0	0.0
130°	0.0	7.5	6.1	0.0	0.0
132.5°	0.0	6.1	5.4	0.0	0.0
135°	0.0	4.8	4.8	0.0	0.0
137.5°	0.0	4.1	4.1	0.0	0.0
140°	0.0	2.7	3.4	0.0	0.0
142.5°	0.7	2.0	2.7	0.0	0.0
145°	0.7	1.4	2.0	0.0	0.0
147.5°	0.7	1.4	2.0	0.0	0.0
150°	0.7	0.7	1.4	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)