

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: P232619

Luminaire Tested: **4SKB1-LD5-4-N-UNV-L840-CD1-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232619
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-L840-CD1-RS-U
Description: METALUX SKYBAR 4' WAVESTREAM STRIP
WITH NARROW LENS AND REFLECTOR
Light Source: (196) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4252.9 lumens
Efficiency: N/A
Efficacy: 146.7 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

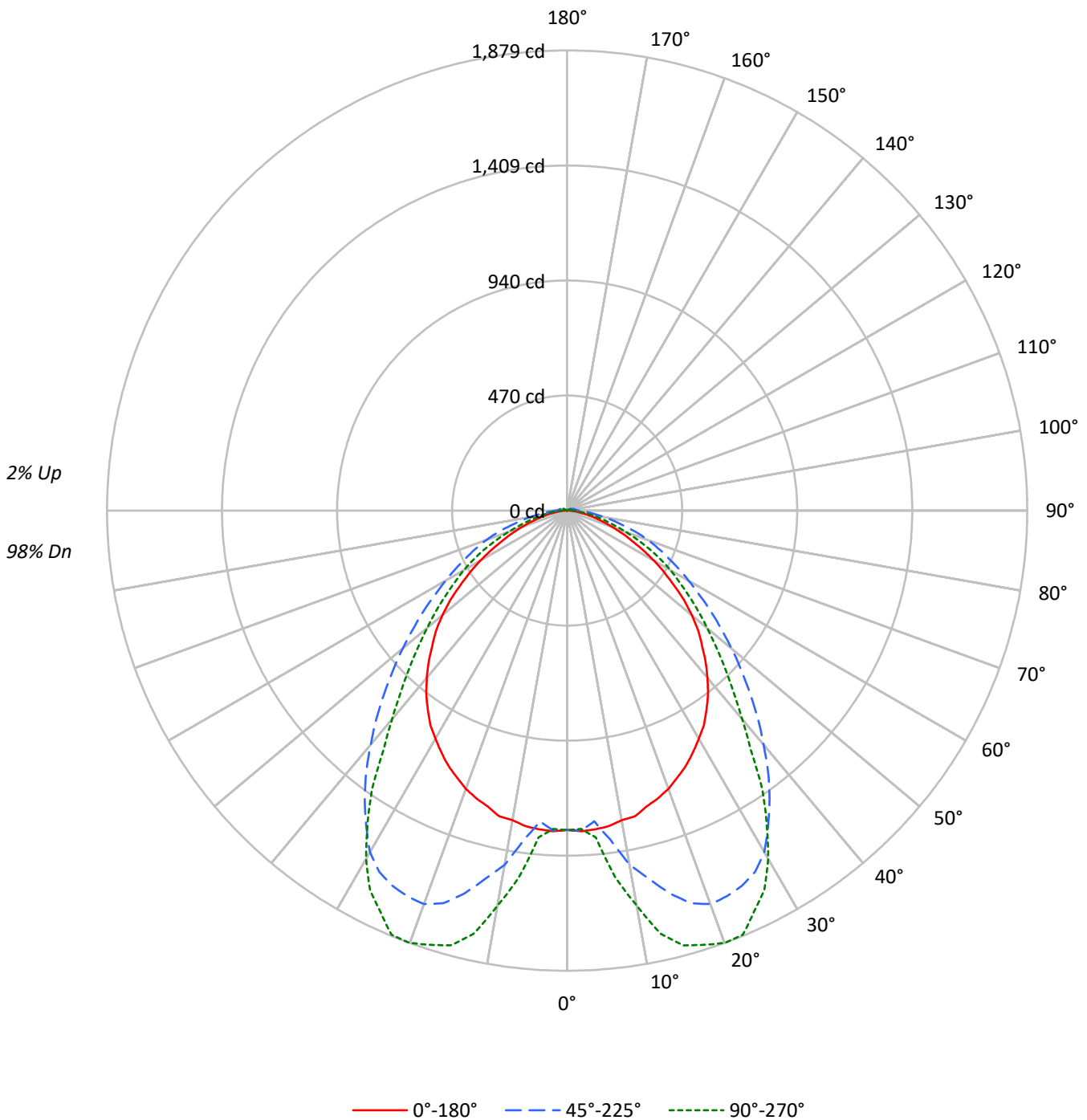
Input Watts (W): 29
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P232619

CATALOG NUMBER: 4SKB1-LD5-4-N-UNV-L840-CD1-RS-U

Luminous Intensity Polar Plot





TEST NUMBER: P232619

CATALOG NUMBER: 4SKB1-LD5-4-N-UNV-L840-CD1-RS-U

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°	14040	14040	14040
5°	14029	12782	13129
10°	13851	13893	14855
15°	13675	14600	15606
20°	13490	14848	15105
25°	13195	14250	13895
30°	12825	13289	12191
35°	12402	11733	10044
40°	11803	10106	7893
45°	11047	8563	6405
50°	10239	7187	5227
55°	9064	5963	4271
60°	7839	4895	3471
65°	6447	4006	2688
70°	5170	3236	1909
75°	3988	2360	1272
80°	2890	1598	805
85°	1792	966	433



TEST NUMBER: P232619

CATALOG NUMBER: 4SKB1-LD5-4-N-UNV-L840-CD1-RS-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.5	3.1
10°-20°	445.3	10.5
20°-30°	730.3	17.2
30°-40°	825.5	19.4
40°-50°	743.8	17.5
50°-60°	586.0	13.8
60°-70°	403.1	9.5
70°-80°	224.8	5.3
80°-90°	91.2	2.1
90°-100°	34.7	0.8
100°-110°	19.4	0.5
110°-120°	10.6	0.2
120°-130°	3.6	0.1
130°-140°	2.5	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°	1306.2	30.7
0°-40°	2131.7	50.1
0°-60°	3461.5	81.4
0°-90°	4180.5	98.3
90°-120°	64.7	1.5
90°-150°	72.3	1.7
90°-180°	72.0	1.7
0°-180°	4252.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1304	1304	1304	1304	1304	
5°	1307	1312	1274	1330	1339	124
15°	1251	1347	1618	1805	1838	354
25°	1149	1389	1690	1816	1806	528
35°	992	1251	1441	1420	1389	619
45°	779	972	1056	975	912	602
55°	533	673	716	653	607	478
65°	293	422	453	415	370	293
75°	122	257	242	194	164	132
85°	27	128	86	64	50	30
90°	1	82	47	31	22	2
95°	0	57	35	24	17	0
105°	0	14	26	23	17	0
115°	0	11	5	17	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



TEST NUMBER: P232619

CATALOG NUMBER: 4SKB1-LD5-4-N-UNV-L840-CD1-RS-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1304.4	1304.4	1304.4	1304.4	1304.4
2.5°	1310.7	1308.4	1307.2	1318.2	1300.9
5°	1306.7	1311.9	1273.7	1330.4	1339.1
7.5°	1299.7	1284.7	1355.8	1480.8	1510.9
10°	1283.5	1267.3	1467.5	1605.7	1638.7
12.5°	1278.9	1300.3	1539.2	1724.9	1771.1
15°	1251.1	1346.6	1617.9	1805.3	1838.2
17.5°	1232.1	1379.6	1680.9	1835.9	1859.1
20°	1208.9	1389.4	1709.8	1853.3	1878.7
22.5°	1178.3	1399.2	1704.6	1853.9	1874.7
25°	1148.8	1388.8	1690.2	1815.7	1806.4
27.5°	1112.9	1365.7	1662.4	1757.8	1744.5
30°	1075.3	1340.8	1610.3	1664.1	1641.6
32.5°	1038.9	1303.8	1527.1	1543.2	1517.2
35°	992.0	1251.1	1440.9	1420.0	1388.8
37.5°	944.6	1189.2	1348.9	1293.9	1231.5
40°	891.4	1119.3	1248.2	1184.0	1111.7
42.5°	836.4	1044.6	1152.8	1074.7	1005.3
45°	778.6	972.3	1055.6	975.2	911.6
47.5°	726.5	898.9	964.2	881.5	826.0
50°	664.6	822.5	877.5	797.7	746.2
52.5°	602.1	749.1	791.3	721.3	674.4
55°	533.3	672.7	715.5	653.0	606.8
57.5°	470.3	605.0	638.6	589.4	542.6
60°	410.1	537.4	572.6	525.8	487.0
62.5°	348.2	478.9	512.5	471.4	428.0
65°	292.7	422.3	452.9	415.3	369.6
67.5°	243.5	374.2	402.0	351.7	308.3
70°	197.2	331.4	350.5	294.4	255.1
72.5°	156.2	291.5	297.9	239.5	204.8
75°	122.0	257.4	242.4	193.8	163.7
77.5°	90.8	227.3	195.5	153.9	128.4
80°	65.9	197.2	153.9	117.4	98.9
82.5°	45.7	162.5	118.0	88.5	72.9
85°	26.6	128.4	86.2	64.2	50.3
87.5°	9.8	104.1	63.0	43.4	33.5
90°	1.2	82.1	47.4	31.2	22.0
92.5°	0.6	69.4	39.3	26.0	17.9
95°	0.0	57.3	35.3	23.7	16.8
97.5°	0.0	45.1	32.4	23.1	16.8
100°	0.0	29.5	30.1	22.0	16.2
102.5°	0.0	16.8	28.3	22.0	16.8
105°	0.0	14.5	26.0	22.6	17.4
107.5°	0.0	13.3	23.1	23.7	18.5
110°	0.0	12.7	15.0	24.3	19.7



TEST NUMBER: P232619

CATALOG NUMBER: 4SKB1-LD5-4-N-UNV-L840-CD1-RS-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	11.6	5.8	24.9	20.8
115°	0.0	11.0	4.6	17.4	19.7
117.5°	0.0	10.4	4.6	12.1	12.7
120°	0.6	9.3	4.6	3.5	3.5
122.5°	0.6	8.7	4.0	3.5	0.0
125°	0.6	8.1	4.0	3.5	0.0
127.5°	0.6	6.9	4.0	4.0	0.0
130°	0.6	6.4	4.0	3.5	0.0
132.5°	0.6	5.8	4.0	4.0	0.0
135°	0.6	4.6	4.0	4.0	0.0
137.5°	0.6	4.0	3.5	4.0	0.0
140°	0.6	3.5	3.5	4.0	0.0
142.5°	0.6	2.9	3.5	4.0	0.0
145°	0.6	2.3	2.9	3.5	0.0
147.5°	0.6	1.7	2.9	3.5	0.0
150°	0.6	1.7	2.3	3.5	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)