

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: P232597

Luminaire Tested: **4SKB1-LD5-3-W-UNV-L835-CD1-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232597
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-LD5-3-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: 2739.0 lumens
Efficiency: N/A
Efficacy: 127.8 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

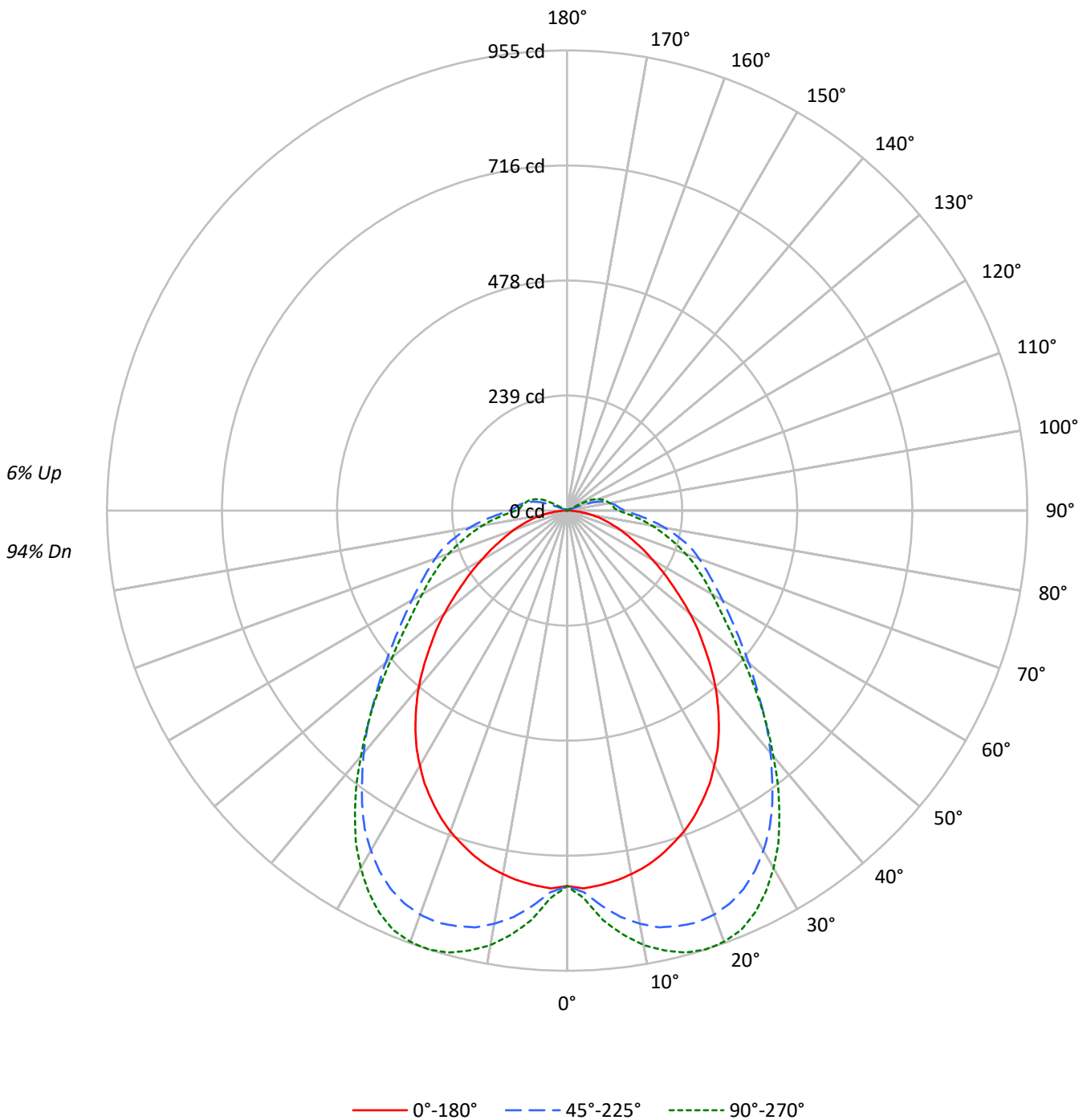
Input Watts (W): 21.44
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	8387	8387	8387
5°	8379	8263	8364
10°	8268	8242	8301
15°	8117	8054	8060
20°	7910	7747	7656
25°	7629	7305	7087
30°	7287	6722	6363
35°	6861	6043	5553
40°	6348	5315	4727
45°	5729	4620	3984
50°	5132	4030	3318
55°	4473	3541	2825
60°	3922	3181	2475
65°	3436	2903	2207
70°	3078	2690	1958
75°	2697	2464	1695
80°	2263	2138	1448
85°	1502	1771	1197



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	2.9
10°-20°	247.6	9.0
20°-30°	385.6	14.1
30°-40°	443.4	16.2
40°-50°	415.4	15.2
50°-60°	349.4	12.8
60°-70°	286.2	10.4
70°-80°	222.8	8.1
80°-90°	143.6	5.2
90°-100°	88.4	3.2
100°-110°	55.0	2.0
110°-120°	18.1	0.7
120°-130°	2.5	0.1
130°-140°	1.1	0.0
140°-150°	0.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	712.8	26.0
0°-40°	1156.2	42.2
0°-60°	1921.0	70.1
0°-90°	2573.6	94.0
90°-120°	161.4	5.9
90°-150°	165.4	6.0
90°-180°	165.0	6.0
0°-180°	2739.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	779	779	779	779	779	
5°	780	797	823	850	853	74
15°	743	826	892	942	949	209
25°	664	785	866	916	921	306
35°	549	671	742	773	768	342
45°	404	516	570	579	567	312
55°	263	377	425	418	401	237
65°	156	278	328	314	304	157
75°	82	212	253	229	218	88
85°	22	140	158	144	139	24
90°	1	97	119	110	106	2
95°	0	74	104	99	96	0
105°	0	15	72	83	82	0
115°	0	10	7	33	51	0
125°	0	6	5	0	0	0
135°	0	3	3	0	0	0
145°	0	1	1	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°	779.2	779.2	779.2	779.2	779.2
2.5°	784.9	786.5	792.6	808.4	805.2
5°	780.4	796.6	823.4	850.3	853.1
7.5°	774.7	810.4	850.7	884.8	887.6
10°	766.2	819.8	870.6	912.0	915.7
12.5°	756.0	825.9	886.0	931.5	935.2
15°	742.6	825.9	892.5	942.5	949.4
17.5°	725.9	822.6	896.2	948.6	955.1
20°	708.9	814.9	892.1	946.1	952.2
22.5°	688.2	802.7	882.4	935.2	942.5
25°	664.2	785.3	866.5	916.5	921.3
27.5°	639.8	763.3	843.4	888.9	892.5
30°	611.0	736.1	814.5	855.1	856.8
32.5°	582.1	707.3	782.0	817.4	816.1
35°	548.8	670.7	742.2	772.7	767.8
37.5°	514.3	635.4	698.7	723.5	718.6
40°	479.4	596.4	656.5	673.5	665.8
42.5°	441.6	555.7	614.2	625.2	615.9
45°	403.8	516.3	569.5	579.3	567.1
47.5°	368.9	477.3	528.9	530.5	518.8
50°	333.1	442.0	492.0	490.3	473.7
52.5°	296.6	407.9	457.0	453.0	435.9
55°	263.2	377.0	424.9	417.6	401.4
57.5°	234.0	348.6	397.3	385.9	372.5
60°	205.2	322.6	372.1	359.5	347.3
62.5°	180.4	298.2	349.0	336.0	325.4
65°	156.0	278.3	328.2	314.4	303.5
67.5°	135.7	258.4	309.6	294.1	283.6
70°	117.4	241.7	291.3	273.4	261.6
72.5°	99.5	227.1	273.8	249.8	239.7
75°	82.5	212.1	253.1	228.7	218.2
77.5°	67.8	198.2	229.5	206.4	197.8
80°	51.6	184.0	206.0	185.2	177.9
82.5°	36.6	163.7	182.8	164.1	158.8
85°	22.3	139.7	158.0	144.2	138.9
87.5°	9.7	115.4	136.1	124.7	121.1
90°	1.2	97.1	119.0	109.7	106.4
92.5°	0.4	85.3	110.1	102.4	98.7
95°	0.0	73.5	104.0	99.1	95.9
97.5°	0.0	59.7	98.3	96.3	93.0
100°	0.0	38.6	91.0	92.2	89.4
102.5°	0.0	16.2	82.5	87.7	85.3
105°	0.0	15.0	71.5	82.9	81.7
107.5°	0.0	13.8	56.5	76.4	75.6
110°	0.0	12.6	29.2	68.7	69.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	11.4	7.3	58.5	60.9
115°	0.0	10.2	6.9	33.3	50.8
117.5°	0.0	9.3	6.1	0.4	17.5
120°	0.0	8.1	5.7	0.4	0.0
122.5°	0.0	6.9	5.3	0.0	0.0
125°	0.0	6.1	4.9	0.0	0.0
127.5°	0.0	5.3	4.1	0.0	0.0
130°	0.0	4.5	3.7	0.0	0.0
132.5°	0.0	3.7	3.2	0.0	0.0
135°	0.0	2.8	2.8	0.0	0.0
137.5°	0.0	2.4	2.4	0.0	0.0
140°	0.0	1.6	2.0	0.0	0.0
142.5°	0.4	1.2	1.6	0.0	0.0
145°	0.4	0.8	1.2	0.0	0.0
147.5°	0.4	0.8	1.2	0.0	0.0
150°	0.4	0.4	0.8	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)