

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: P232528

Luminaire Tested: **8SKB1-LD5-8-W-UNV-L835-CD1-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232528
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: 8SKB1-LD5-8-W-UNV-L835-CD1-RS-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH WIDE LENS AND REFLECTOR
Light Source: (392) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7293.0 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.47 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')
CIE Type: Direct

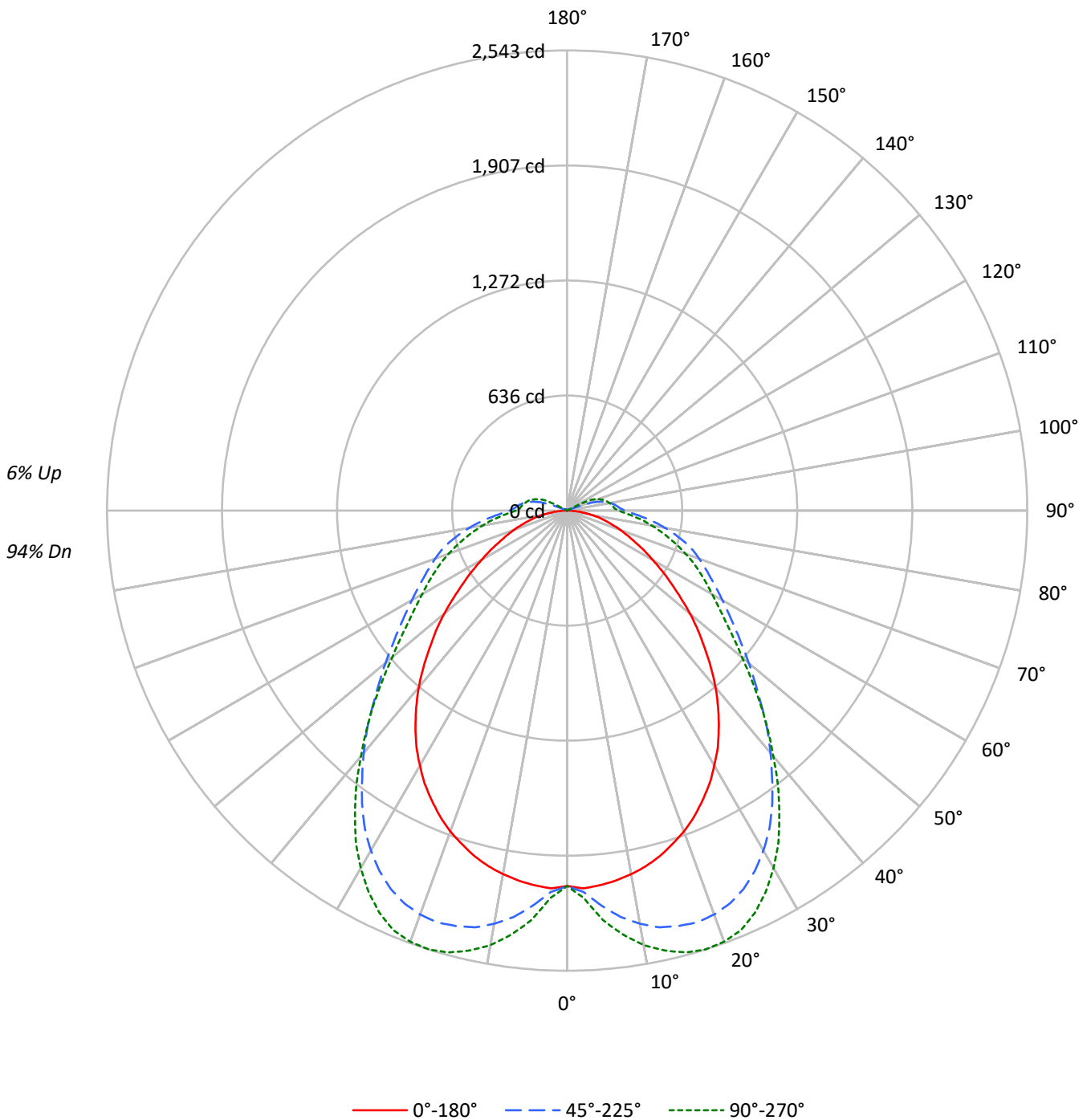
Input Watts (W): 59.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11165	11165	11165
5°	11190	11024	11135
10°	11077	11015	11051
15°	10911	10783	10730
20°	10669	10388	10193
25°	10326	9809	9435
30°	9901	9038	8471
35°	9362	8137	7393
40°	8701	7166	6294
45°	7896	6237	5304
50°	7117	5446	4418
55°	6251	4793	3761
60°	5530	4312	3295
65°	4906	3941	2938
70°	4471	3657	2606
75°	4019	3356	2256
80°	3529	2918	1928
85°	2593	2423	1593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.0	2.9
10°-20°	659.3	9.0
20°-30°	1026.8	14.1
30°-40°	1180.5	16.2
40°-50°	1106.0	15.2
50°-60°	930.3	12.8
60°-70°	762.0	10.4
70°-80°	593.3	8.1
80°-90°	382.4	5.2
90°-100°	235.4	3.2
100°-110°	146.3	2.0
110°-120°	48.1	0.7
120°-130°	6.6	0.1
130°-140°	3.0	0.0
140°-150°	1.1	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1898.0	26.0
0°-40°	3078.5	42.2
0°-60°	5114.8	70.1
0°-90°	6852.5	94.0
90°-120°	429.8	5.9
90°-150°	440.5	6.0
90°-180°	441.0	6.0
0°-180°	7293.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2075	2075	2075	2075	2075	
5°	2078	2121	2192	2264	2272	197
15°	1977	2199	2376	2510	2528	557
25°	1768	2091	2307	2440	2453	814
35°	1461	1786	1976	2057	2044	912
45°	1075	1375	1516	1542	1510	831
55°	701	1004	1131	1112	1069	632
65°	415	741	874	837	808	417
75°	220	565	674	609	581	235
85°	60	372	421	384	370	65
90°	3	258	317	292	283	5
95°	0	196	277	264	255	0
105°	0	40	190	221	217	0
115°	0	27	18	89	135	0
125°	0	16	13	0	0	0
135°	0	8	8	0	0	0
145°	1	2	3	0	0	1
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°	2074.6	2074.6	2074.6	2074.6	2074.6
2.5°	2089.8	2094.1	2110.3	2152.5	2143.9
5°	2077.9	2121.2	2192.5	2263.9	2271.5
7.5°	2062.7	2157.9	2265.0	2355.9	2363.5
10°	2040.0	2182.8	2318.0	2428.4	2438.1
12.5°	2013.0	2199.0	2359.1	2480.3	2490.0
15°	1977.3	2199.0	2376.4	2509.5	2527.9
17.5°	1932.9	2190.4	2386.2	2525.7	2543.0
20°	1887.5	2169.8	2375.4	2519.2	2535.4
22.5°	1832.4	2137.4	2349.4	2490.0	2509.5
25°	1768.5	2090.9	2307.2	2440.3	2453.2
27.5°	1703.6	2032.5	2245.6	2366.7	2376.4
30°	1626.8	1960.0	2168.8	2276.9	2281.2
32.5°	1550.0	1883.2	2082.2	2176.3	2173.1
35°	1461.3	1785.8	1976.2	2057.3	2044.4
37.5°	1369.4	1691.7	1860.5	1926.5	1913.5
40°	1276.4	1587.9	1748.0	1793.4	1772.9
42.5°	1175.8	1479.7	1635.5	1664.7	1639.8
45°	1075.2	1374.8	1516.5	1542.5	1510.0
47.5°	982.2	1271.0	1408.3	1412.7	1381.3
50°	887.0	1176.9	1309.9	1305.6	1261.2
52.5°	789.6	1086.0	1216.9	1206.1	1160.6
55°	700.9	1003.8	1131.4	1112.0	1068.7
57.5°	623.0	928.1	1057.9	1027.6	991.9
60°	546.2	858.8	990.8	957.3	924.8
62.5°	480.3	793.9	929.2	894.5	866.4
65°	415.4	740.9	874.0	837.2	808.0
67.5°	361.3	687.9	824.2	783.1	755.0
70°	312.6	643.6	775.6	728.0	696.6
72.5°	265.0	604.7	729.0	665.2	638.2
75°	219.6	564.6	673.9	609.0	580.9
77.5°	180.6	527.9	611.1	549.5	526.8
80°	137.4	490.0	548.4	493.2	473.8
82.5°	97.4	435.9	486.8	437.0	422.9
85°	59.5	372.1	420.8	384.0	369.9
87.5°	26.0	307.2	362.4	332.1	322.3
90°	3.2	258.5	316.9	292.1	283.4
92.5°	1.1	227.2	293.1	272.6	262.8
95°	0.0	195.8	276.9	263.9	255.3
97.5°	0.0	159.0	261.8	256.4	247.7
100°	0.0	102.8	242.3	245.5	238.0
102.5°	0.0	43.3	219.6	233.6	227.2
105°	0.0	40.0	190.4	220.7	217.4
107.5°	0.0	36.8	150.4	203.4	201.2
110°	0.0	33.5	77.9	182.8	183.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	30.3	19.5	155.8	162.3
115°	0.0	27.0	18.4	88.7	135.2
117.5°	0.0	24.9	16.2	1.1	46.5
120°	0.0	21.6	15.1	1.1	0.0
122.5°	0.0	18.4	14.1	0.0	0.0
125°	0.0	16.2	13.0	0.0	0.0
127.5°	0.0	14.1	10.8	0.0	0.0
130°	0.0	11.9	9.7	0.0	0.0
132.5°	0.0	9.7	8.7	0.0	0.0
135°	0.0	7.6	7.6	0.0	0.0
137.5°	0.0	6.5	6.5	0.0	0.0
140°	0.0	4.3	5.4	0.0	0.0
142.5°	1.1	3.2	4.3	0.0	0.0
145°	1.1	2.2	3.2	0.0	0.0
147.5°	1.1	2.2	3.2	0.0	0.0
150°	1.1	1.1	2.2	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)