

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: P289643

Luminaire Tested: **8SSRK-TB-50-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-TB-50-L935-CD1-U
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 90 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4104.3 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.08 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

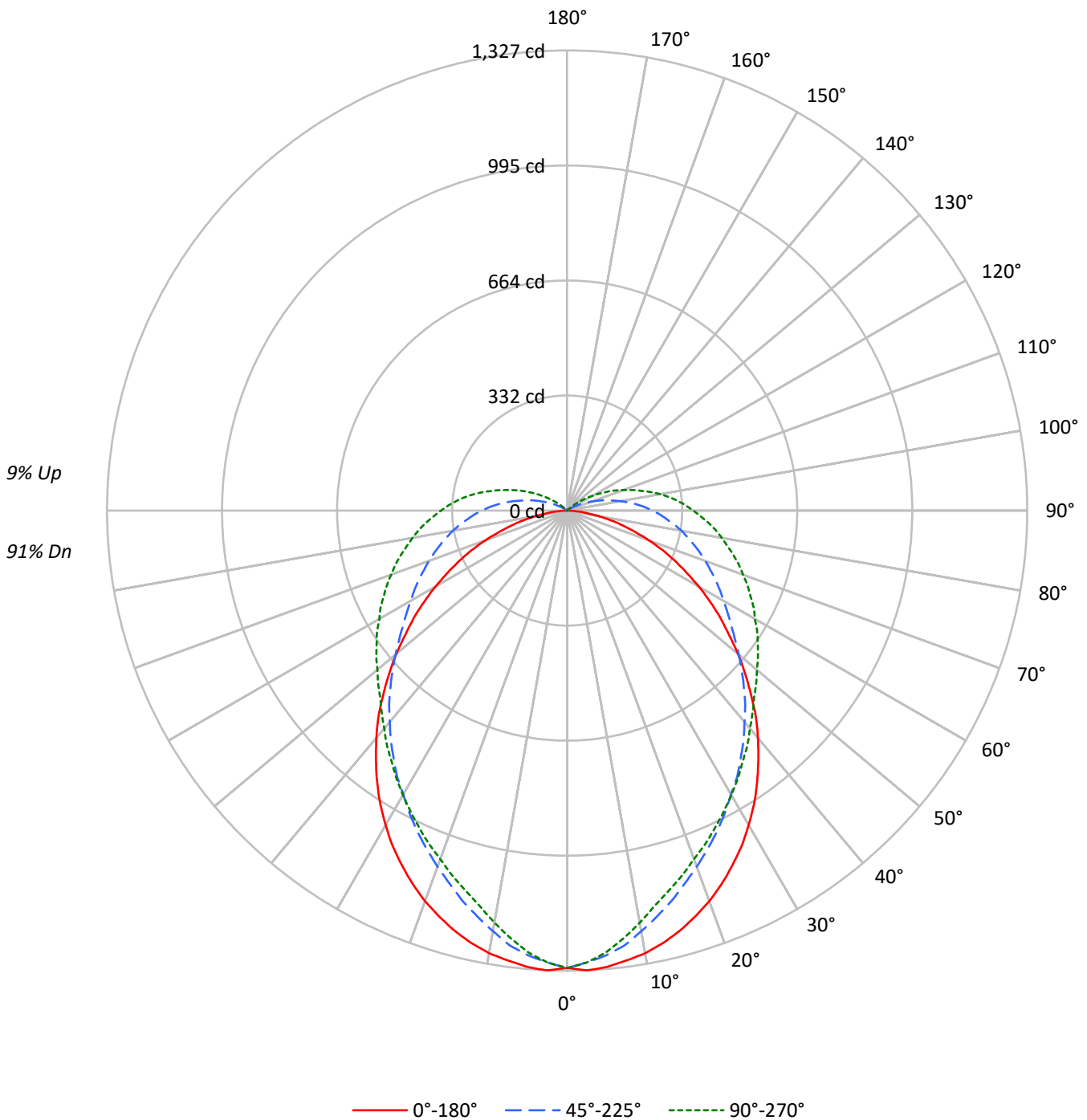
Input Watts (W): 34.1991
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	91				
1	104	98	93	89	100	95	90	86	89	85	82	84	80	78	78	76	74	71				
2	94	85	77	71	90	82	75	69	77	71	66	72	67	63	68	64	60	58				
3	85	74	65	58	82	72	64	57	67	60	55	63	58	53	60	55	51	48				
4	78	65	56	49	75	63	55	48	60	52	47	56	50	45	53	48	43	41				
5	72	58	49	42	69	57	48	41	53	46	40	50	44	39	48	42	38	35				
6	66	53	43	37	64	51	42	36	48	41	35	46	39	34	43	38	33	31				
7	61	48	39	32	59	46	38	32	44	37	31	42	35	30	40	34	29	27				
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	31	26	24				
9	54	40	32	26	52	39	31	26	37	30	25	35	29	24	34	28	24	22				
10	50	37	29	24	48	36	28	23	34	28	23	33	27	22	31	26	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	42589	42589	42589
5°	42742	33426	30721
10°	42340	26901	23202
15°	41706	22110	18298
20°	40872	18450	14966
25°	39797	15655	12552
30°	38568	13340	10671
35°	37121	11498	9155
40°	35451	9904	7938
45°	33542	8564	6962
50°	31564	7394	6224
55°	29523	6424	5627
60°	27315	5683	5093
65°	25065	5076	4656
70°	22442	4540	4252
75°	19240	4062	3888
80°	15550	3631	3555
85°	10563	3193	3245



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.1	3.0
10°-20°	332.8	8.1
20°-30°	481.5	11.7
30°-40°	560.1	13.6
40°-50°	570.1	13.9
50°-60°	530.5	12.9
60°-70°	461.9	11.3
70°-80°	376.0	9.2
80°-90°	284.8	6.9
90°-100°	197.5	4.8
100°-110°	116.1	2.8
110°-120°	54.4	1.3
120°-130°	15.5	0.4
130°-140°	0.9	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	936.4	22.8
0°-40°	1496.5	36.5
0°-60°	2597.1	63.3
0°-90°	3719.9	90.6
90°-120°	368.0	9.0
90°-150°	384.4	9.4
90°-180°	384.0	9.4
0°-180°	4104.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1319	1319	1319	1319	1319	
5°	1321	1311	1288	1288	1279	125
15°	1254	1221	1165	1144	1134	353
25°	1128	1078	1022	1014	1009	519
35°	955	906	872	881	883	597
45°	750	721	721	750	762	579
55°	540	538	577	646	671	482
65°	343	372	472	555	584	340
75°	166	243	378	465	496	177
85°	35	152	289	380	409	41
90°	0	110	245	334	364	2
95°	0	71	202	291	320	0
105°	0	17	114	193	220	0
115°	0	0	46	106	129	0
125°	0	0	2	35	52	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	2	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°	1318.9	1318.9	1318.9	1318.9	1318.9
2.5°	1327.2	1321.0	1304.3	1310.6	1304.3
5°	1321.0	1310.6	1287.7	1287.7	1279.4
7.5°	1308.5	1296.0	1264.9	1254.5	1244.1
10°	1296.0	1277.3	1231.7	1219.2	1206.7
12.5°	1277.3	1250.3	1198.4	1179.7	1167.3
15°	1254.5	1221.3	1165.2	1144.4	1134.0
17.5°	1227.5	1190.1	1127.8	1111.2	1102.9
20°	1198.4	1154.8	1092.5	1078.0	1069.6
22.5°	1165.2	1115.3	1057.2	1046.8	1040.6
25°	1127.8	1078.0	1021.9	1013.6	1009.4
27.5°	1090.4	1036.4	984.5	980.3	978.3
30°	1046.8	994.9	945.0	947.1	947.1
32.5°	1003.2	951.3	911.8	916.0	916.0
35°	955.4	905.6	872.3	880.6	882.7
37.5°	905.6	861.9	834.9	847.4	853.6
40°	855.7	816.3	795.5	814.2	820.4
42.5°	805.9	768.5	760.2	783.0	791.3
45°	749.8	720.7	720.7	749.8	762.3
47.5°	695.8	677.1	683.3	720.7	739.4
50°	643.9	629.3	645.9	693.7	714.5
52.5°	587.8	583.6	610.6	668.8	693.7
55°	540.0	537.9	577.4	645.9	670.9
57.5°	488.1	494.3	548.3	623.1	650.1
60°	438.2	450.7	521.3	600.2	625.2
62.5°	388.4	413.3	496.4	577.4	606.5
65°	342.7	371.8	471.5	554.6	583.6
67.5°	297.0	334.4	446.6	533.8	562.9
70°	251.3	301.2	423.7	510.9	540.0
72.5°	205.6	272.1	400.9	488.1	519.2
75°	166.2	243.0	378.0	465.2	496.4
77.5°	128.8	220.2	355.2	446.6	473.6
80°	93.5	195.2	334.4	423.7	452.8
82.5°	60.2	174.5	311.5	400.9	432.0
85°	35.3	151.6	288.7	380.1	409.2
87.5°	14.5	128.8	267.9	357.2	386.3
90°	0.0	110.1	245.1	334.4	363.5
92.5°	0.0	91.4	224.3	313.6	342.7
95°	0.0	70.6	201.5	290.8	319.9
97.5°	0.0	54.0	178.6	267.9	297.0
100°	0.0	41.5	155.8	240.9	272.1
102.5°	0.0	29.1	132.9	216.0	247.2
105°	0.0	16.6	114.2	193.2	220.2
107.5°	0.0	8.3	95.5	170.3	197.3
110°	0.0	2.1	76.8	147.5	172.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	60.2	126.7	151.6
115°	0.0	0.0	45.7	105.9	128.8
117.5°	0.0	0.0	31.2	87.2	108.0
120°	0.0	0.0	18.7	68.5	87.2
122.5°	0.0	0.0	8.3	51.9	68.5
125°	0.0	0.0	2.1	35.3	51.9
127.5°	0.0	0.0	0.0	20.8	35.3
130°	0.0	0.0	0.0	10.4	20.8
132.5°	0.0	0.0	0.0	2.1	8.3
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	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°	2.1	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)