

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-40-L930-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-40-L930-CD1-U
Description: 4000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 90 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3071.5 lumens
Efficiency: N/A
Efficacy: 113.7 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

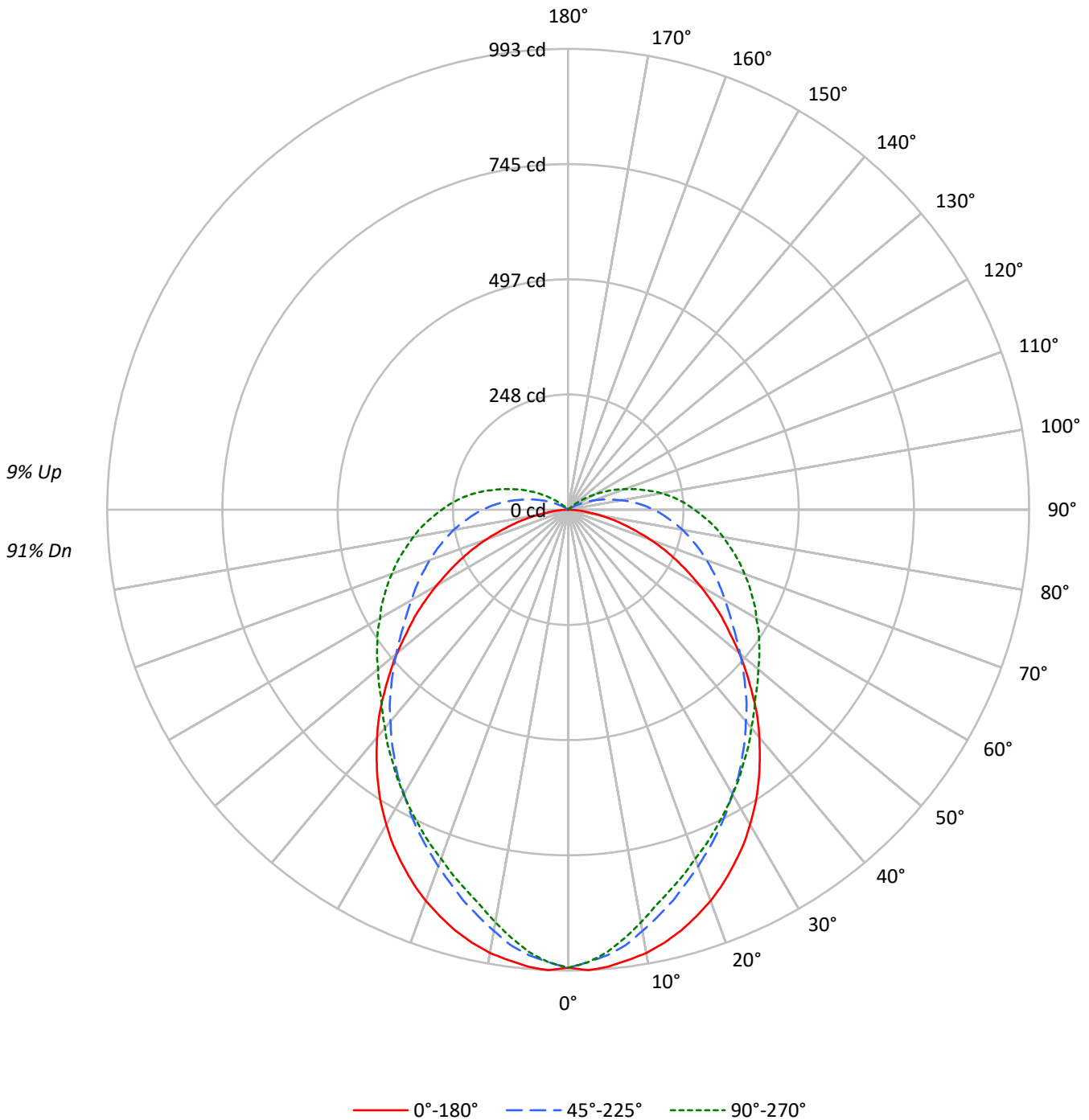
Input Watts (W): 27.0151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	31872	31872	31872
5°	31984	25016	22989
10°	31686	20130	17363
15°	31210	16546	13693
20°	30586	13808	11201
25°	29782	11715	9394
30°	28863	9983	7986
35°	27780	8604	6851
40°	26531	7412	5940
45°	25101	6408	5210
50°	23618	5534	4658
55°	22093	4807	4210
60°	20445	4253	3811
65°	18761	3798	3485
70°	16798	3398	3182
75°	14389	3040	2910
80°	11625	2717	2660
85°	7900	2389	2428



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	3.0
10°-20°	249.0	8.1
20°-30°	360.3	11.7
30°-40°	419.1	13.6
40°-50°	426.6	13.9
50°-60°	397.0	12.9
60°-70°	345.7	11.3
70°-80°	281.4	9.2
80°-90°	213.2	6.9
90°-100°	147.8	4.8
100°-110°	86.9	2.8
110°-120°	40.7	1.3
120°-130°	11.6	0.4
130°-140°	0.6	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°	700.7	22.8
0°-40°	1119.9	36.5
0°-60°	1943.5	63.3
0°-90°	2783.8	90.6
90°-120°	275.5	9.0
90°-150°	287.7	9.4
90°-180°	288.0	9.4
0°-180°	3071.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	987	987	987	987	987	
5°	988	981	964	964	957	94
15°	939	914	872	856	849	264
25°	844	807	765	758	755	389
35°	715	678	653	659	661	447
45°	561	539	539	561	570	433
55°	404	403	432	483	502	361
65°	256	278	353	415	437	254
75°	124	182	283	348	372	133
85°	26	114	216	284	306	30
90°	0	82	183	250	272	1
95°	0	53	151	218	239	0
105°	0	12	86	144	165	0
115°	0	0	34	79	96	0
125°	0	0	2	26	39	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°	987.0	987.0	987.0	987.0	987.0
2.5°	993.2	988.5	976.1	980.8	976.1
5°	988.5	980.8	963.7	963.7	957.4
7.5°	979.2	969.9	946.6	938.8	931.0
10°	969.9	955.9	921.7	912.4	903.0
12.5°	955.9	935.7	896.8	882.8	873.5
15°	938.8	913.9	872.0	856.4	848.6
17.5°	918.6	890.6	844.0	831.5	825.3
20°	896.8	864.2	817.6	806.7	800.5
22.5°	872.0	834.6	791.1	783.4	778.7
25°	844.0	806.7	764.7	758.5	755.4
27.5°	816.0	775.6	736.7	733.6	732.1
30°	783.4	744.5	707.2	708.8	708.8
32.5°	750.7	711.9	682.3	685.4	685.4
35°	715.0	677.7	652.8	659.0	660.6
37.5°	677.7	645.0	624.8	634.1	638.8
40°	640.4	610.8	595.3	609.3	613.9
42.5°	603.1	575.1	568.9	586.0	592.2
45°	561.1	539.3	539.3	561.1	570.4
47.5°	520.7	506.7	511.4	539.3	553.3
50°	481.8	470.9	483.4	519.1	534.7
52.5°	439.9	436.8	457.0	500.5	519.1
55°	404.1	402.6	432.1	483.4	502.0
57.5°	365.3	369.9	410.3	466.3	486.5
60°	328.0	337.3	390.1	449.2	467.8
62.5°	290.7	309.3	371.5	432.1	453.9
65°	256.5	278.2	352.8	415.0	436.8
67.5°	222.3	250.2	334.2	399.5	421.2
70°	188.1	225.4	317.1	382.4	404.1
72.5°	153.9	203.6	300.0	365.3	388.6
75°	124.3	181.9	282.9	348.2	371.5
77.5°	96.4	164.8	265.8	334.2	354.4
80°	69.9	146.1	250.2	317.1	338.8
82.5°	45.1	130.6	233.1	300.0	323.3
85°	26.4	113.5	216.0	284.4	306.2
87.5°	10.9	96.4	200.5	267.3	289.1
90°	0.0	82.4	183.4	250.2	272.0
92.5°	0.0	68.4	167.9	234.7	256.5
95°	0.0	52.8	150.8	217.6	239.4
97.5°	0.0	40.4	133.7	200.5	222.3
100°	0.0	31.1	116.6	180.3	203.6
102.5°	0.0	21.8	99.5	161.6	185.0
105°	0.0	12.4	85.5	144.5	164.8
107.5°	0.0	6.2	71.5	127.5	147.7
110°	0.0	1.6	57.5	110.4	129.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	45.1	94.8	113.5
115°	0.0	0.0	34.2	79.3	96.4
117.5°	0.0	0.0	23.3	65.3	80.8
120°	0.0	0.0	14.0	51.3	65.3
122.5°	0.0	0.0	6.2	38.9	51.3
125°	0.0	0.0	1.6	26.4	38.9
127.5°	0.0	0.0	0.0	15.5	26.4
130°	0.0	0.0	0.0	7.8	15.5
132.5°	0.0	0.0	0.0	1.6	6.2
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°	1.6	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)