

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: P289782

Luminaire Tested: **8SSRK-TS-50-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289782
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-TS-50-L940-CD1-U
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4003.5 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

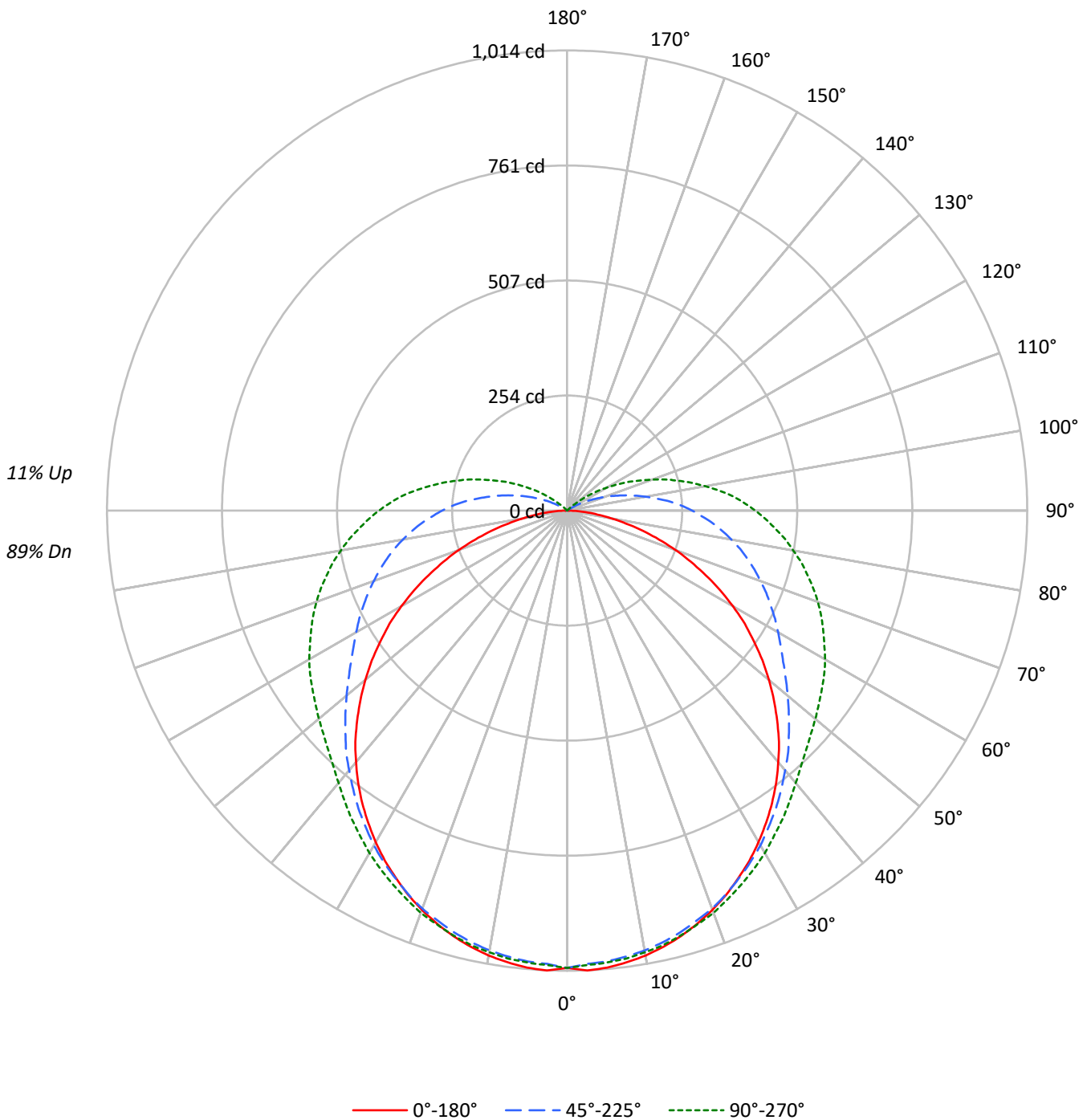
Input Watts (W): 34.1991
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	116	116	116	116	112	112	112	112	105	105	105		98	98	98		92	92	92	89
1	103	97	91	87	99	94	89	84	87	83	79		81	78	75		76	73	71	68
2	93	83	75	68	89	80	73	67	75	68	63		70	65	60		65	61	57	54
3	84	72	63	56	80	69	61	54	65	58	52		61	55	50		57	52	47	45
4	76	63	54	46	73	61	52	45	57	50	44		53	47	42		50	45	40	37
5	70	56	47	39	67	54	45	39	51	43	37		48	41	36		45	39	34	32
6	65	50	41	34	62	49	40	34	46	38	32		43	36	31		41	35	30	28
7	60	46	36	30	57	44	36	29	42	34	28		39	33	28		37	31	27	24
8	56	41	33	27	53	40	32	26	38	31	25		36	29	25		34	28	24	22
9	52	38	29	24	50	37	29	23	35	28	23		33	27	22		31	26	21	19
10	49	35	27	21	47	34	26	21	32	25	21		31	24	20		29	23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32540	32540	32540
5°	32705	25888	24009
10°	32529	21495	19005
15°	32268	18258	15636
20°	31926	15765	13201
25°	31518	13708	11302
30°	31081	12027	9817
35°	30582	10568	8592
40°	29991	9306	7581
45°	29275	8211	6803
50°	28441	7264	6220
55°	27434	6466	5747
60°	26292	5852	5348
65°	24656	5329	4966
70°	22727	4856	4630
75°	20027	4420	4295
80°	16598	3990	3972
85°	12209	3567	3652



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.3	2.4
10°-20°	273.2	6.8
20°-30°	414.8	10.4
30°-40°	504.2	12.6
40°-50°	538.1	13.4
50°-60°	527.7	13.2
60°-70°	482.2	12.0
70°-80°	409.2	10.2
80°-90°	318.4	8.0
90°-100°	224.5	5.6
100°-110°	133.5	3.3
110°-120°	63.2	1.6
120°-130°	18.3	0.5
130°-140°	1.1	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°	783.3	19.6
0°-40°	1287.5	32.2
0°-60°	2353.3	58.8
0°-90°	3563.0	89.0
90°-120°	421.1	10.5
90°-150°	440.5	11.0
90°-180°	440.0	11.0
0°-180°	4003.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1008	1008	1008	1008	1008	
5°	1011	1007	997	1003	1000	96
15°	971	968	962	971	969	274
25°	893	894	895	909	909	412
35°	787	791	802	822	828	492
45°	654	665	691	728	745	505
55°	502	523	581	657	685	449
65°	337	380	495	590	622	334
75°	173	262	411	513	548	183
85°	41	167	322	425	460	46
90°	3	124	275	379	414	4
95°	3	83	227	328	366	3
105°	3	22	130	220	254	3
115°	2	2	53	121	150	2
125°	2	1	3	40	59	1
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°	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°	1007.7	1007.7	1007.7	1007.7	1007.7
2.5°	1014.5	1010.8	999.9	1005.6	1002.5
5°	1010.8	1007.2	997.3	1003.0	999.9
7.5°	1004.0	1001.4	991.5	997.8	995.7
10°	995.7	993.1	984.2	991.5	988.4
12.5°	984.2	981.6	974.3	981.6	980.5
15°	970.6	968.5	962.2	970.6	969.0
17.5°	954.4	952.8	947.6	958.1	956.0
20°	936.1	935.1	933.5	942.9	943.4
22.5°	916.2	916.2	915.2	925.6	926.2
25°	893.2	893.8	894.8	908.9	908.9
27.5°	869.7	871.3	873.9	887.5	890.6
30°	843.6	846.2	852.0	866.6	871.3
32.5°	815.9	820.1	826.3	844.6	849.3
35°	787.1	791.3	801.8	821.6	828.4
37.5°	756.3	761.0	774.6	797.1	806.0
40°	723.9	729.1	747.4	775.6	783.5
42.5°	691.0	698.3	720.8	751.1	763.1
45°	654.4	665.4	691.0	727.6	744.8
47.5°	617.8	630.9	662.7	707.7	728.6
50°	580.2	594.8	634.5	689.9	714.0
52.5°	542.5	558.7	606.8	673.2	699.3
55°	501.8	523.2	581.2	657.0	685.2
57.5°	464.1	487.1	558.2	640.8	671.6
60°	421.8	451.1	536.8	624.1	656.5
62.5°	380.0	415.0	516.4	606.8	638.7
65°	337.1	380.5	495.0	589.6	622.5
67.5°	294.8	345.5	475.1	571.8	605.8
70°	254.5	315.2	453.2	553.5	588.0
72.5°	212.2	288.5	432.8	534.2	568.7
75°	173.0	262.4	411.3	513.3	548.3
77.5°	133.3	237.8	390.4	492.4	528.4
80°	99.8	214.8	367.4	470.4	505.9
82.5°	67.9	191.8	345.0	447.9	485.0
85°	40.8	167.3	322.5	424.9	460.5
87.5°	18.3	145.8	297.9	401.4	438.5
90°	3.1	123.9	275.4	378.9	414.5
92.5°	3.7	104.0	252.4	354.9	390.4
95°	3.1	83.1	227.4	328.2	366.4
97.5°	3.1	65.3	200.7	302.1	337.1
100°	2.6	48.6	175.1	274.4	308.9
102.5°	2.6	34.5	152.1	247.2	281.7
105°	2.6	22.5	129.6	220.0	253.5
107.5°	2.6	12.5	107.7	193.9	227.9
110°	2.6	4.7	87.8	170.4	198.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.1	2.1	68.5	144.3	173.5
115°	2.1	2.1	52.8	120.7	149.5
117.5°	2.1	1.6	36.1	98.8	124.9
120°	2.1	1.6	22.5	78.9	101.4
122.5°	1.6	1.0	11.0	58.5	81.0
125°	1.6	1.0	2.6	40.2	59.1
127.5°	1.6	0.5	0.0	24.0	40.8
130°	1.0	0.5	0.0	11.5	24.0
132.5°	1.0	0.5	0.0	2.1	10.5
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°	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)