

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: P290480

Luminaire Tested: **8SSRK-SLW-40-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-17)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-SLW-40-L830-CD1-U
Description: 4000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE FROSTED LENS AND 80 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3809.0 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.23 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

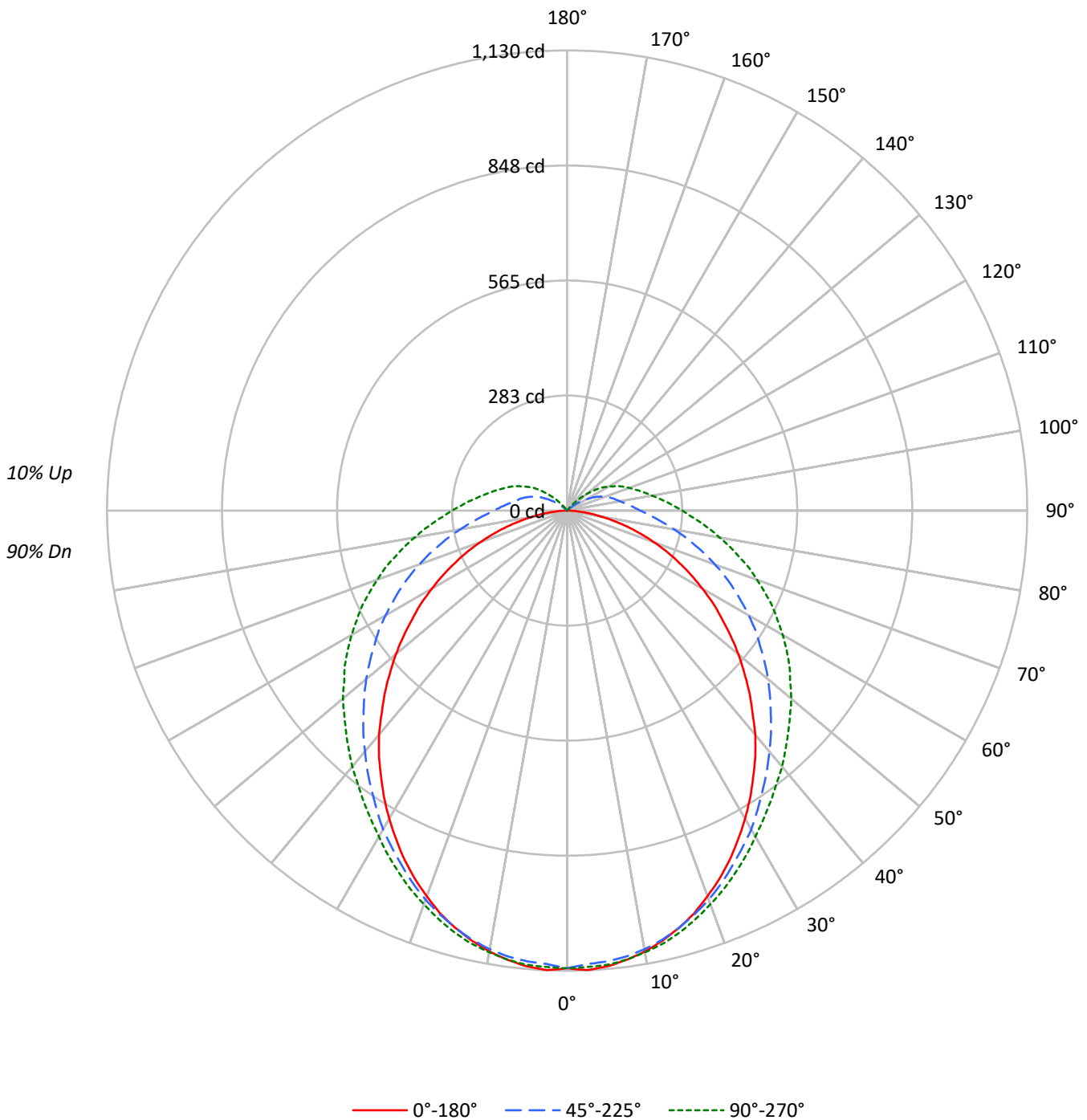
Input Watts (W): 27.0151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	90
1	104	99	94	89	101	96	91	87	89	86	82	84	81	78	79	76	74	71
2	94	85	78	71	91	82	76	70	77	72	67	72	68	64	68	64	61	58
3	86	74	66	59	82	72	64	58	68	61	55	63	58	53	60	55	51	48
4	78	66	56	49	75	64	55	49	60	53	47	56	50	45	53	48	43	41
5	72	59	49	42	69	57	48	42	54	46	40	50	44	39	48	42	38	35
6	66	53	43	37	64	51	43	36	48	41	35	46	39	34	43	37	33	31
7	61	48	39	32	59	46	38	32	44	36	31	42	35	30	39	34	29	27
8	57	43	35	29	55	42	34	28	40	33	28	38	32	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22
10	50	37	29	23	48	36	28	23	34	27	23	33	26	22	31	26	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	36289	36289	36289
5°	36362	28852	26893
10°	35924	23891	21180
15°	35263	20127	17300
20°	34364	17168	14397
25°	33360	14724	12182
30°	32194	12764	10418
35°	30947	11036	9038
40°	29775	9616	7941
45°	28308	8405	7014
50°	26907	7375	6261
55°	25362	6434	5594
60°	23893	5611	4981
65°	22242	4847	4435
70°	20254	4133	3903
75°	17631	3476	3422
80°	14286	2895	2984
85°	10085	2413	2600



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	2.8
10°-20°	300.3	7.9
20°-30°	444.3	11.7
30°-40°	524.8	13.8
40°-50°	545.5	14.3
50°-60°	514.3	13.5
60°-70°	438.4	11.5
70°-80°	331.6	8.7
80°-90°	223.7	5.9
90°-100°	153.6	4.0
100°-110°	110.1	2.9
110°-120°	70.7	1.9
120°-130°	36.0	0.9
130°-140°	9.2	0.2
140°-150°	0.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	850.9	22.3
0°-40°	1375.7	36.1
0°-60°	2435.5	63.9
0°-90°	3429.3	90.0
90°-120°	334.4	8.8
90°-150°	379.7	10.0
90°-180°	380.0	10.0
0°-180°	3809.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1124	1124	1124	1124	1124	
5°	1124	1121	1112	1122	1120	106
15°	1061	1064	1061	1071	1072	299
25°	945	956	961	978	980	435
35°	796	815	837	862	871	499
45°	633	664	707	751	768	488
55°	464	512	578	640	667	416
65°	304	366	450	525	556	302
75°	152	226	324	406	437	163
85°	34	113	218	299	328	38
90°	0	80	179	256	283	2
95°	0	64	153	220	245	1
105°	1	41	116	166	186	1
115°	1	5	80	126	141	1
125°	1	1	34	78	94	1
135°	1	0	0	25	36	1
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°	1123.8	1123.8	1123.8	1123.8	1123.8
2.5°	1129.5	1125.7	1114.8	1124.3	1121.9
5°	1123.8	1120.9	1111.5	1121.9	1120.0
7.5°	1112.9	1112.4	1104.8	1115.7	1112.4
10°	1099.6	1100.1	1093.9	1104.8	1101.5
12.5°	1081.6	1083.5	1079.2	1089.6	1089.2
15°	1060.7	1064.0	1060.7	1071.1	1072.1
17.5°	1037.0	1042.2	1039.8	1052.6	1051.2
20°	1007.6	1014.7	1016.6	1029.4	1028.9
22.5°	978.2	987.2	990.5	1003.8	1005.7
25°	945.4	956.3	961.1	977.7	979.6
27.5°	909.9	924.1	932.6	949.2	953.5
30°	873.8	889.0	904.2	920.8	924.6
32.5°	836.3	852.9	870.5	893.2	897.5
35°	796.5	815.4	837.3	862.4	871.4
37.5°	759.0	780.3	806.0	835.4	844.9
40°	718.7	740.5	772.3	805.5	820.7
42.5°	673.6	703.0	741.0	780.8	794.1
45°	632.8	664.1	707.3	750.9	768.0
47.5°	590.1	626.6	675.5	723.9	742.4
50°	548.9	588.7	644.2	696.4	718.7
52.5°	506.2	551.2	611.5	669.3	690.2
55°	463.9	511.9	578.3	640.4	667.0
57.5°	426.0	474.8	548.4	611.9	639.0
60°	383.3	439.7	514.7	583.0	611.5
62.5°	343.9	401.3	481.5	554.1	582.5
65°	304.1	365.7	450.2	524.7	556.0
67.5°	266.6	328.7	418.4	495.7	525.6
70°	226.8	294.1	385.7	465.4	495.7
72.5°	190.2	259.5	355.3	436.0	468.7
75°	152.3	226.3	323.5	406.1	436.9
77.5°	118.6	194.0	295.1	378.1	408.9
80°	85.9	164.6	266.6	350.1	380.0
82.5°	58.3	137.6	241.5	324.5	353.9
85°	33.7	113.4	218.2	298.9	327.8
87.5°	12.8	94.4	197.3	276.6	303.1
90°	0.5	80.2	179.3	255.7	282.7
92.5°	0.5	70.2	165.6	236.7	261.9
95°	0.5	63.6	152.7	220.1	244.8
97.5°	0.9	58.3	141.4	205.4	227.2
100°	0.9	53.1	131.9	191.2	212.0
102.5°	0.9	47.9	123.3	178.4	197.8
105°	0.9	40.8	115.7	166.5	185.5
107.5°	0.9	31.8	107.2	156.5	173.1
110°	0.9	23.2	98.2	146.6	162.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	14.2	90.1	136.6	152.3
115°	0.9	5.2	80.2	125.7	141.4
117.5°	0.9	1.9	68.3	115.3	129.0
120°	0.9	1.4	56.9	103.9	117.6
122.5°	0.9	1.4	45.1	91.6	106.3
125°	0.9	1.4	33.7	78.3	93.9
127.5°	0.9	0.9	21.8	64.5	78.7
130°	0.9	0.9	10.4	51.2	65.0
132.5°	0.9	0.9	0.5	37.5	50.8
135°	0.9	0.5	0.5	24.7	36.5
137.5°	0.9	0.5	0.0	11.9	23.7
140°	0.9	0.5	0.0	0.0	9.5
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)