

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: P290456

Luminaire Tested: **4SSRK-SLW-40-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290456
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: 4SSRK-SLW-40-L830-CD1-U
Description: 4000 LUMEN, 4 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: 3834.1 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.23 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

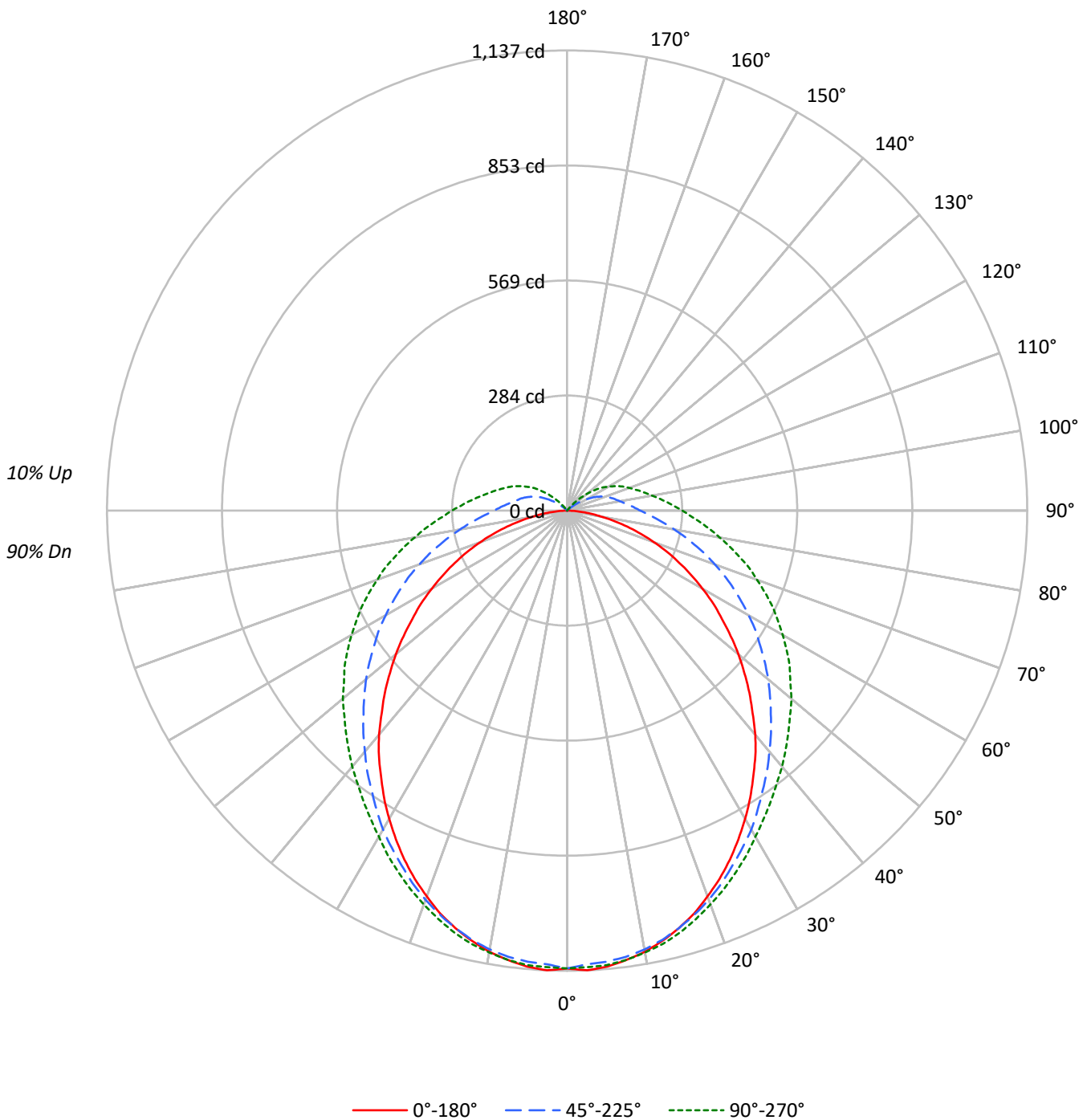
Input Watts (W): 27.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	73056	73056	73056
5°	73069	58024	54142
10°	72054	48014	42636
15°	70600	40429	34825
20°	68662	34472	28984
25°	66518	29553	24522
30°	64047	25611	20970
35°	61415	22141	18196
40°	58927	19288	15987
45°	55853	16854	14122
50°	52885	14786	12603
55°	49630	12898	11262
60°	46478	11247	10028
65°	42940	9713	8928
70°	38664	8281	7859
75°	33105	6967	6890
80°	25992	5801	6006
85°	17016	4834	5232



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.9	2.8
10°-20°	302.3	7.9
20°-30°	447.3	11.7
30°-40°	528.2	13.8
40°-50°	549.1	14.3
50°-60°	517.7	13.5
60°-70°	441.3	11.5
70°-80°	333.8	8.7
80°-90°	225.2	5.9
90°-100°	154.6	4.0
100°-110°	110.9	2.9
110°-120°	71.1	1.9
120°-130°	36.3	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°	856.5	22.3
0°-40°	1384.7	36.1
0°-60°	2451.6	63.9
0°-90°	3451.8	90.0
90°-120°	336.6	8.8
90°-150°	382.3	10.0
90°-180°	382.0	10.0
0°-180°	3834.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1131	1131	1131	1131	1131	
5°	1131	1128	1119	1129	1127	107
15°	1068	1071	1068	1078	1079	301
25°	952	963	967	984	986	438
35°	802	821	843	868	877	502
45°	637	668	712	756	773	491
55°	467	515	582	645	671	419
65°	306	368	453	528	560	304
75°	153	228	326	409	440	164
85°	34	114	220	301	330	39
90°	0	81	180	257	285	2
95°	0	64	154	222	246	1
105°	1	41	116	168	187	1
115°	1	5	81	126	142	1
125°	1	1	34	79	94	1
135°	1	0	0	25	37	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°	1131.2	1131.2	1131.2	1131.2	1131.2
2.5°	1136.9	1133.1	1122.1	1131.7	1129.3
5°	1131.2	1128.3	1118.8	1129.3	1127.4
7.5°	1120.2	1119.7	1112.1	1123.1	1119.7
10°	1106.8	1107.3	1101.1	1112.1	1108.7
12.5°	1088.7	1090.6	1086.3	1096.8	1096.3
15°	1067.7	1071.0	1067.7	1078.2	1079.1
17.5°	1043.8	1049.1	1046.7	1059.6	1058.1
20°	1014.2	1021.4	1023.3	1036.2	1035.7
22.5°	984.6	993.7	997.0	1010.4	1012.3
25°	951.6	962.6	967.4	984.1	986.0
27.5°	915.8	930.2	938.8	955.5	959.8
30°	879.5	894.8	910.1	926.8	930.6
32.5°	841.8	858.5	876.2	899.1	903.4
35°	801.7	820.8	842.8	868.1	877.2
37.5°	764.0	785.5	811.3	840.9	850.4
40°	723.4	745.4	777.4	810.8	826.1
42.5°	678.0	707.6	745.8	786.0	799.3
45°	637.0	668.5	711.9	755.9	773.1
47.5°	594.0	630.8	680.0	728.7	747.3
50°	552.5	592.6	648.4	701.0	723.4
52.5°	509.5	554.8	615.5	673.7	694.8
55°	467.0	515.2	582.1	644.6	671.4
57.5°	428.8	478.0	552.0	616.0	643.2
60°	385.8	442.6	518.1	586.8	615.5
62.5°	346.2	404.0	484.7	557.7	586.4
65°	306.1	368.1	453.1	528.1	559.6
67.5°	268.4	330.9	421.2	499.0	529.1
70°	228.2	296.0	388.2	468.4	499.0
72.5°	191.5	261.2	357.6	438.8	471.8
75°	153.3	227.8	325.7	408.7	439.8
77.5°	119.4	195.3	297.0	380.6	411.6
80°	86.4	165.7	268.4	352.4	382.5
82.5°	58.7	138.5	243.0	326.6	356.2
85°	33.9	114.1	219.6	300.8	329.9
87.5°	12.9	95.0	198.6	278.4	305.1
90°	0.5	80.7	180.5	257.4	284.6
92.5°	0.5	70.7	166.6	238.3	263.6
95°	0.5	64.0	153.8	221.6	246.4
97.5°	1.0	58.7	142.3	206.8	228.7
100°	1.0	53.5	132.7	192.4	213.4
102.5°	1.0	48.2	124.1	179.5	199.1
105°	1.0	41.1	116.5	167.6	186.7
107.5°	1.0	32.0	107.9	157.6	174.3
110°	1.0	23.4	98.8	147.5	163.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	14.3	90.7	137.5	153.3
115°	1.0	5.3	80.7	126.5	142.3
117.5°	1.0	1.9	68.8	116.0	129.9
120°	1.0	1.4	57.3	104.6	118.4
122.5°	1.0	1.4	45.4	92.2	107.0
125°	1.0	1.4	33.9	78.8	94.5
127.5°	1.0	1.0	22.0	64.9	79.3
130°	1.0	1.0	10.5	51.6	65.4
132.5°	1.0	1.0	0.5	37.7	51.1
135°	1.0	0.5	0.5	24.8	36.8
137.5°	1.0	0.5	0.0	11.9	23.9
140°	1.0	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)