

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: P290488

Luminaire Tested: **8SSRK-SLW-50-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290488
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-50-L830-CD1-U
Description: 5000 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: 4795.2 lumens
Efficiency: N/A
Efficacy: 140.2 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

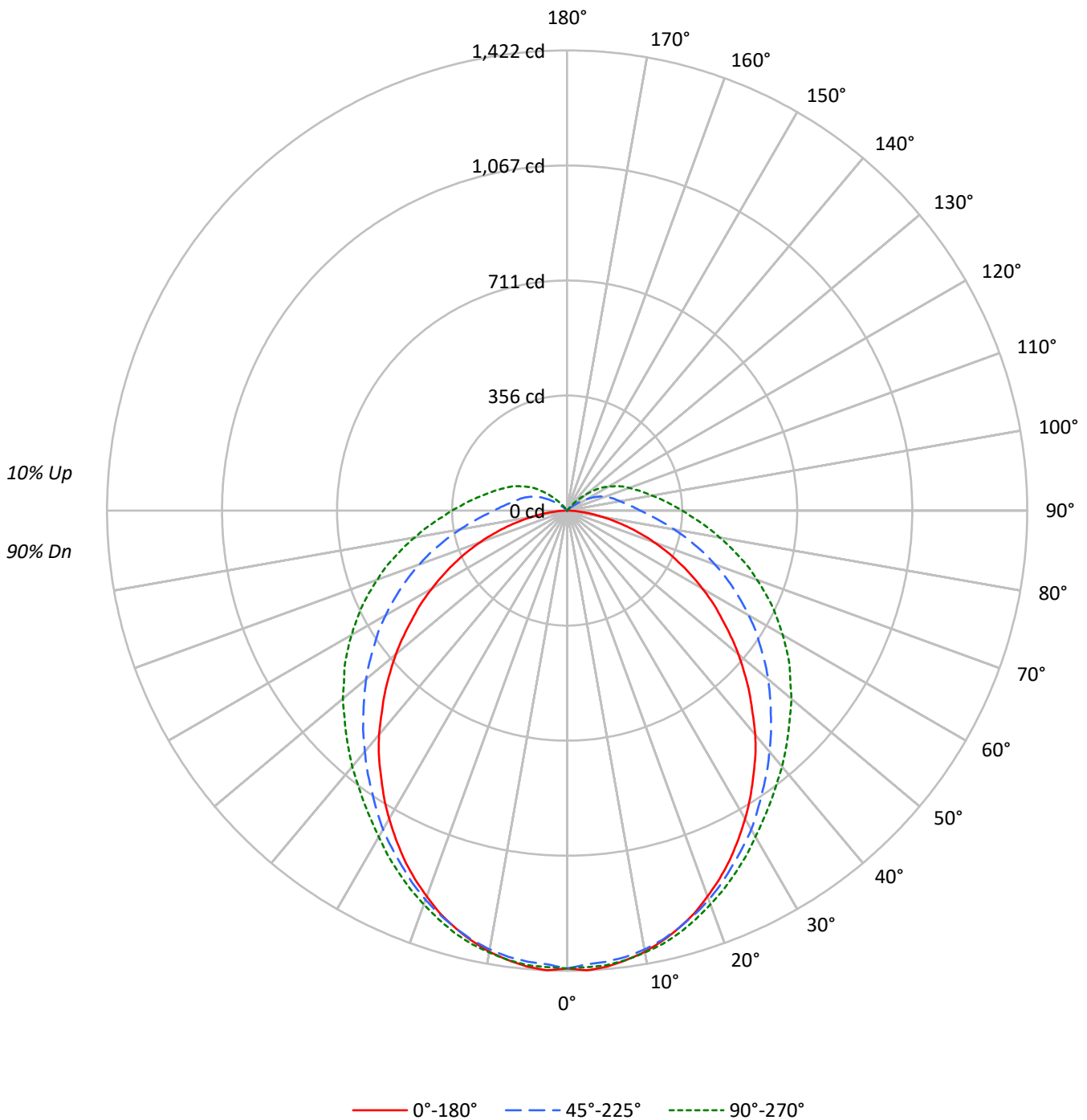
Input Watts (W): 34.1991
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	45683	45683	45683
5°	45774	36320	33857
10°	45225	30077	26664
15°	44392	25337	21779
20°	43259	21613	18125
25°	41998	18535	15335
30°	40528	16067	13114
35°	38959	13892	11378
40°	37481	12104	9997
45°	35640	10580	8831
50°	33873	9284	7881
55°	31934	8099	7043
60°	30076	7064	6271
65°	27998	6101	5583
70°	25496	5202	4914
75°	22192	4377	4308
80°	17978	3644	3756
85°	12688	3038	3273



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.7	2.8
10°-20°	378.1	7.9
20°-30°	559.4	11.7
30°-40°	660.6	13.8
40°-50°	686.8	14.3
50°-60°	647.5	13.5
60°-70°	551.9	11.5
70°-80°	417.4	8.7
80°-90°	281.6	5.9
90°-100°	193.4	4.0
100°-110°	138.7	2.9
110°-120°	89.0	1.9
120°-130°	45.4	0.9
130°-140°	11.5	0.2
140°-150°	0.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1071.2	22.3
0°-40°	1731.8	36.1
0°-60°	3066.1	63.9
0°-90°	4317.1	90.0
90°-120°	421.0	8.8
90°-150°	478.1	10.0
90°-180°	478.0	10.0
0°-180°	4795.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1415	1415	1415	1415	1415	
5°	1415	1411	1399	1412	1410	134
15°	1335	1340	1335	1348	1350	376
25°	1190	1204	1210	1231	1233	547
35°	1003	1027	1054	1086	1097	628
45°	797	836	890	945	967	614
55°	584	644	728	806	840	524
65°	383	460	567	660	700	380
75°	192	285	407	511	550	205
85°	42	143	275	376	413	48
90°	1	101	226	322	356	2
95°	1	80	192	277	308	1
105°	1	51	146	210	234	1
115°	1	7	101	158	178	1
125°	1	2	42	98	118	1
135°	1	1	1	31	46	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°	1414.7	1414.7	1414.7	1414.7	1414.7
2.5°	1421.9	1417.1	1403.4	1415.3	1412.4
5°	1414.7	1411.2	1399.2	1412.4	1410.0
7.5°	1401.0	1400.4	1390.9	1404.6	1400.4
10°	1384.3	1384.9	1377.1	1390.9	1386.7
12.5°	1361.6	1364.0	1358.6	1371.7	1371.2
15°	1335.3	1339.5	1335.3	1348.5	1349.7
17.5°	1305.5	1312.0	1309.0	1325.2	1323.4
20°	1268.4	1277.4	1279.8	1295.9	1295.3
22.5°	1231.4	1242.8	1246.9	1263.7	1266.0
25°	1190.2	1203.9	1209.9	1230.8	1233.2
27.5°	1145.4	1163.3	1174.1	1195.0	1200.4
30°	1100.0	1119.1	1138.2	1159.1	1163.9
32.5°	1052.8	1073.8	1095.8	1124.5	1129.9
35°	1002.7	1026.6	1054.0	1085.7	1097.0
37.5°	955.5	982.4	1014.6	1051.7	1063.6
40°	904.7	932.2	972.2	1014.0	1033.1
42.5°	848.0	885.0	932.8	983.0	999.7
45°	796.7	836.1	890.4	945.4	966.9
47.5°	742.9	788.9	850.4	911.3	934.6
50°	691.0	741.1	811.0	876.7	904.7
52.5°	637.2	693.9	769.8	842.6	868.9
55°	584.1	644.4	728.0	806.2	839.7
57.5°	536.3	597.8	690.4	770.4	804.4
60°	482.5	553.6	648.0	733.9	769.8
62.5°	433.0	505.2	606.1	697.5	733.4
65°	382.8	460.4	566.7	660.5	699.9
67.5°	335.6	413.9	526.7	624.1	661.7
70°	285.5	370.3	485.5	585.8	624.1
72.5°	239.5	326.7	447.3	548.8	590.0
75°	191.7	284.9	407.3	511.2	550.0
77.5°	149.3	244.3	371.5	476.0	514.8
80°	108.1	207.2	335.6	440.7	478.4
82.5°	73.5	173.2	304.0	408.5	445.5
85°	42.4	142.7	274.7	376.2	412.7
87.5°	16.1	118.8	248.4	348.2	381.6
90°	0.6	100.9	225.7	321.9	355.9
92.5°	0.6	88.4	208.4	298.0	329.6
95°	0.6	80.0	192.3	277.1	308.2
97.5°	1.2	73.5	178.0	258.6	286.1
100°	1.2	66.9	166.0	240.7	266.9
102.5°	1.2	60.3	155.3	224.5	249.0
105°	1.2	51.4	145.7	209.6	233.5
107.5°	1.2	40.0	135.0	197.1	218.0
110°	1.2	29.3	123.6	184.5	204.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	17.9	113.5	172.0	191.7
115°	1.2	6.6	100.9	158.3	178.0
117.5°	1.2	2.4	86.0	145.1	162.4
120°	1.2	1.8	71.7	130.8	148.1
122.5°	1.2	1.8	56.7	115.3	133.8
125°	1.2	1.8	42.4	98.5	118.2
127.5°	1.2	1.2	27.5	81.2	99.1
130°	1.2	1.2	13.1	64.5	81.8
132.5°	1.2	1.2	0.6	47.2	63.9
135°	1.2	0.6	0.6	31.1	46.0
137.5°	1.2	0.6	0.0	14.9	29.9
140°	1.2	0.6	0.0	0.0	11.9
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)