

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: P290273

Luminaire Tested: **4SSRK-SLC-30-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-16)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SSRK-SLC-30-L835-CD1-U
Description: 3000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 80 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

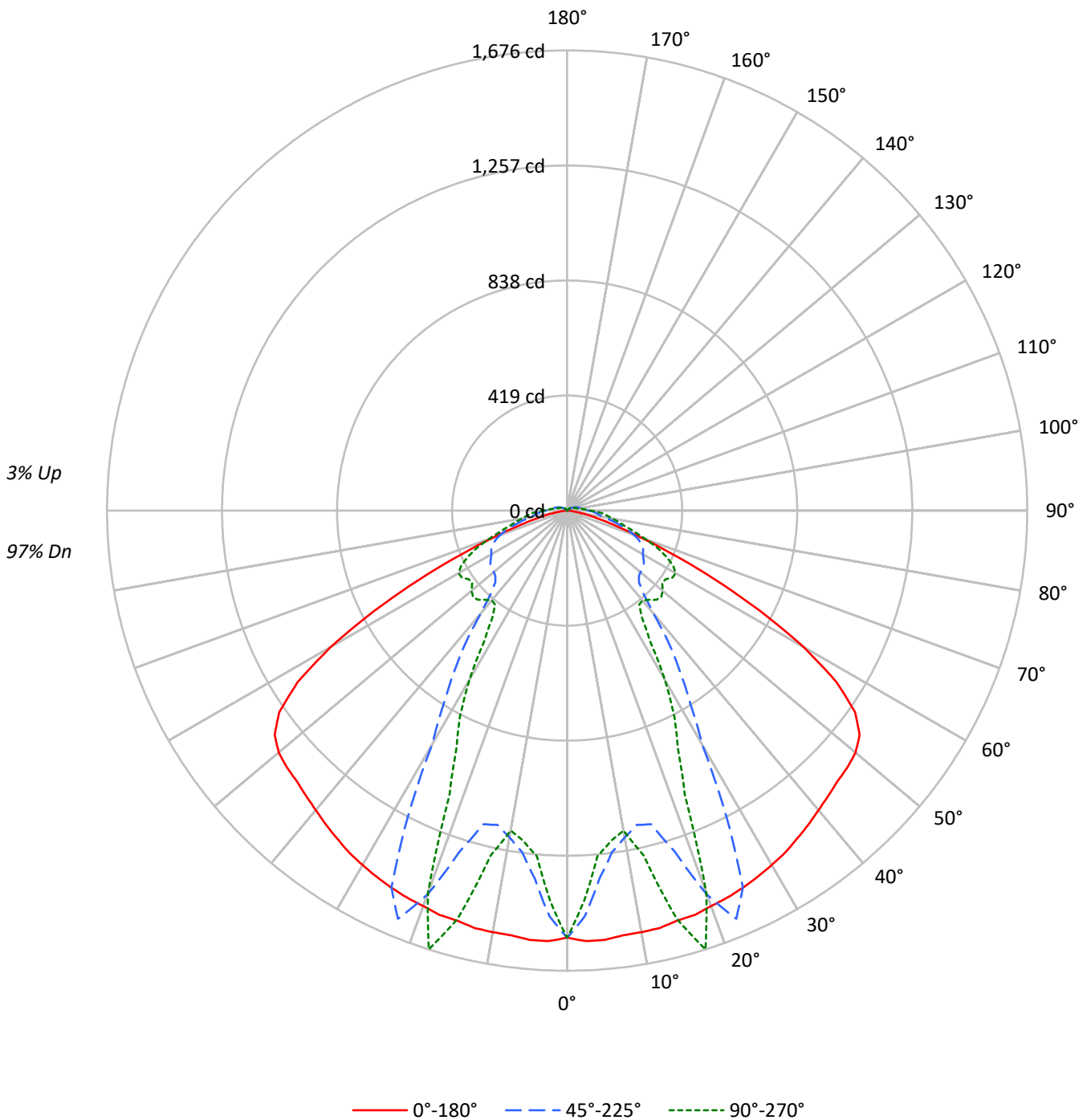
Lumens per Lamp: N/A
Luminaire Lumens: 3270.8 lumens
Efficiency: N/A
Efficacy: 160.3 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 20.4
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



TEST NUMBER: P290273
CATALOG NUMBER: 4SSRK-SLC-30-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P290273

CATALOG NUMBER: 4SSRK-SLC-30-L835-CD1-U

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	50	30	10	0	
RCR																						
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97	
1	108	103	99	95	105	101	97	93	96	93	90	91	89	87	87	85	83	87	85	83	81	
2	99	91	84	79	96	89	83	78	85	80	75	81	77	73	77	74	71	77	74	71	69	
3	91	81	73	67	88	79	72	66	75	69	64	72	67	63	69	65	61	69	65	61	59	
4	84	72	64	57	81	71	63	57	68	61	56	65	59	54	62	57	53	62	57	53	51	
5	77	65	56	50	75	64	56	50	61	54	49	59	53	48	57	51	47	57	51	47	45	
6	72	59	50	44	70	58	50	44	56	49	43	54	47	43	52	46	42	52	46	42	40	
7	67	54	45	40	65	53	45	39	51	44	39	49	43	38	48	42	38	48	42	38	36	
8	62	49	41	36	61	49	41	35	47	40	35	46	39	35	44	38	34	44	38	34	32	
9	58	46	38	32	57	45	37	32	44	37	32	42	36	32	41	35	31	41	35	31	29	
10	55	42	35	30	54	42	34	30	40	34	29	39	33	29	38	33	29	38	33	29	27	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	100459	100459	100459
5°	101374	69796	60716
10°	101499	52693	45501
15°	102226	44776	49609
20°	103772	50160	41465
25°	105921	46257	23687
30°	108541	27694	16044
35°	111799	18857	9820
40°	115998	12127	8258
45°	122166	8769	8395
50°	131232	7947	7917
55°	135998	7569	7322
60°	119797	6908	7439
65°	83229	6500	6364
70°	47848	5525	4786
75°	26734	4173	3406
80°	14741	2946	2633
85°	6626	2364	2155



TEST NUMBER: P290273

CATALOG NUMBER: 4SSRK-SLC-30-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.2	4.0
10°-20°	388.1	11.9
20°-30°	571.3	17.5
30°-40°	558.1	17.1
40°-50°	462.6	14.1
50°-60°	424.7	13.0
60°-70°	336.6	10.3
70°-80°	186.9	5.7
80°-90°	99.0	3.0
90°-100°	52.0	1.6
100°-110°	31.3	1.0
110°-120°	17.9	0.5
120°-130°	9.9	0.3
130°-140°	3.1	0.1
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°	1088.6	33.3
0°-40°	1646.6	50.3
0°-60°	2534.0	77.5
0°-90°	3156.4	96.5
90°-120°	101.3	3.1
90°-150°	114.3	3.5
90°-180°	114.0	3.5
0°-180°	3270.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1556	1556	1556	1556	1556	
5°	1569	1481	1346	1288	1264	149
15°	1546	1235	1182	1448	1537	439
25°	1515	1179	1514	1032	952	700
35°	1459	1407	718	513	473	916
45°	1393	636	370	423	460	1081
55°	1280	284	342	409	436	1111
65°	593	184	303	385	399	600
75°	124	112	195	208	217	147
85°	13	55	107	130	136	18
90°	0	40	78	86	85	1
95°	1	32	61	64	61	1
105°	1	21	43	37	33	1
115°	1	3	28	26	24	1
125°	1	1	13	20	20	1
135°	1	1	1	9	11	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



TEST NUMBER: P290273

CATALOG NUMBER: 4SSRK-SLC-30-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1555.5	1555.5	1555.5	1555.5	1555.5
2.5°	1569.4	1541.2	1478.8	1436.4	1422.1
5°	1569.4	1481.3	1345.8	1288.4	1264.3
7.5°	1559.9	1405.3	1254.8	1230.0	1214.3
10°	1559.1	1324.2	1208.4	1187.6	1183.2
12.5°	1557.3	1279.3	1172.6	1246.4	1286.3
15°	1546.0	1234.7	1182.5	1448.1	1537.2
17.5°	1544.2	1201.5	1302.3	1638.4	1676.0
20°	1532.8	1175.2	1489.0	1614.3	1481.7
22.5°	1525.5	1156.9	1609.2	1298.7	1118.2
25°	1515.3	1178.9	1514.2	1032.4	952.4
27.5°	1503.6	1249.4	1255.2	898.7	845.7
30°	1490.5	1359.7	984.1	785.4	712.0
32.5°	1477.3	1440.4	837.7	644.8	558.6
35°	1459.4	1407.2	717.8	512.9	473.4
37.5°	1442.6	1253.7	608.6	442.8	431.4
40°	1424.0	1010.1	488.8	415.0	426.7
42.5°	1408.3	800.8	410.6	412.1	440.9
45°	1393.3	636.4	370.4	422.7	459.6
47.5°	1384.5	506.0	354.3	435.4	465.0
50°	1371.0	405.5	348.5	438.0	454.4
52.5°	1342.5	334.3	346.7	424.5	435.8
55°	1279.7	283.5	341.6	409.1	436.5
57.5°	1163.9	252.1	329.9	412.4	454.4
60°	994.4	227.6	318.2	423.0	456.6
62.5°	791.3	205.3	312.0	414.3	435.1
65°	593.3	184.1	303.2	384.7	398.9
67.5°	415.4	165.9	283.5	347.8	355.4
70°	282.4	148.3	259.0	300.6	303.9
72.5°	190.0	130.8	228.7	252.1	257.2
75°	123.8	112.1	195.1	208.2	217.4
77.5°	78.9	95.3	161.8	178.6	190.3
80°	49.0	78.9	136.3	160.4	167.7
82.5°	27.4	65.8	118.0	143.2	147.2
85°	13.2	55.2	107.4	130.4	135.9
87.5°	3.3	46.8	94.6	108.1	108.1
90°	0.4	40.2	78.5	85.8	85.1
92.5°	0.4	35.4	68.3	73.1	71.6
95°	0.7	31.8	61.0	63.6	60.6
97.5°	0.7	30.0	56.3	54.4	50.0
100°	0.7	27.8	51.1	46.4	41.6
102.5°	0.7	24.8	46.8	40.9	36.9
105°	0.7	21.2	42.7	36.9	33.2
107.5°	0.7	16.8	38.4	33.6	30.7
110°	0.7	12.1	34.3	31.1	28.9



TEST NUMBER: P290273

CATALOG NUMBER: 4SSRK-SLC-30-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	7.3	31.1	28.9	27.0
115°	0.7	2.6	27.8	26.3	24.5
117.5°	0.7	1.1	24.5	25.2	23.0
120°	0.7	1.1	20.5	23.7	21.9
122.5°	0.7	1.1	16.8	22.3	21.2
125°	0.7	0.7	12.8	20.5	20.1
127.5°	0.7	0.7	8.8	17.9	18.6
130°	0.7	0.7	4.4	14.6	16.4
132.5°	0.7	0.7	0.7	12.1	13.5
135°	0.7	0.7	0.7	8.8	11.0
137.5°	0.7	0.7	0.7	4.4	8.0
140°	0.7	0.7	0.7	0.7	3.3
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)