

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: P290264

Luminaire Tested: **4SSRK-SLC-20-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290264
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-20-L830-CD1-U
Description: 2000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 80 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

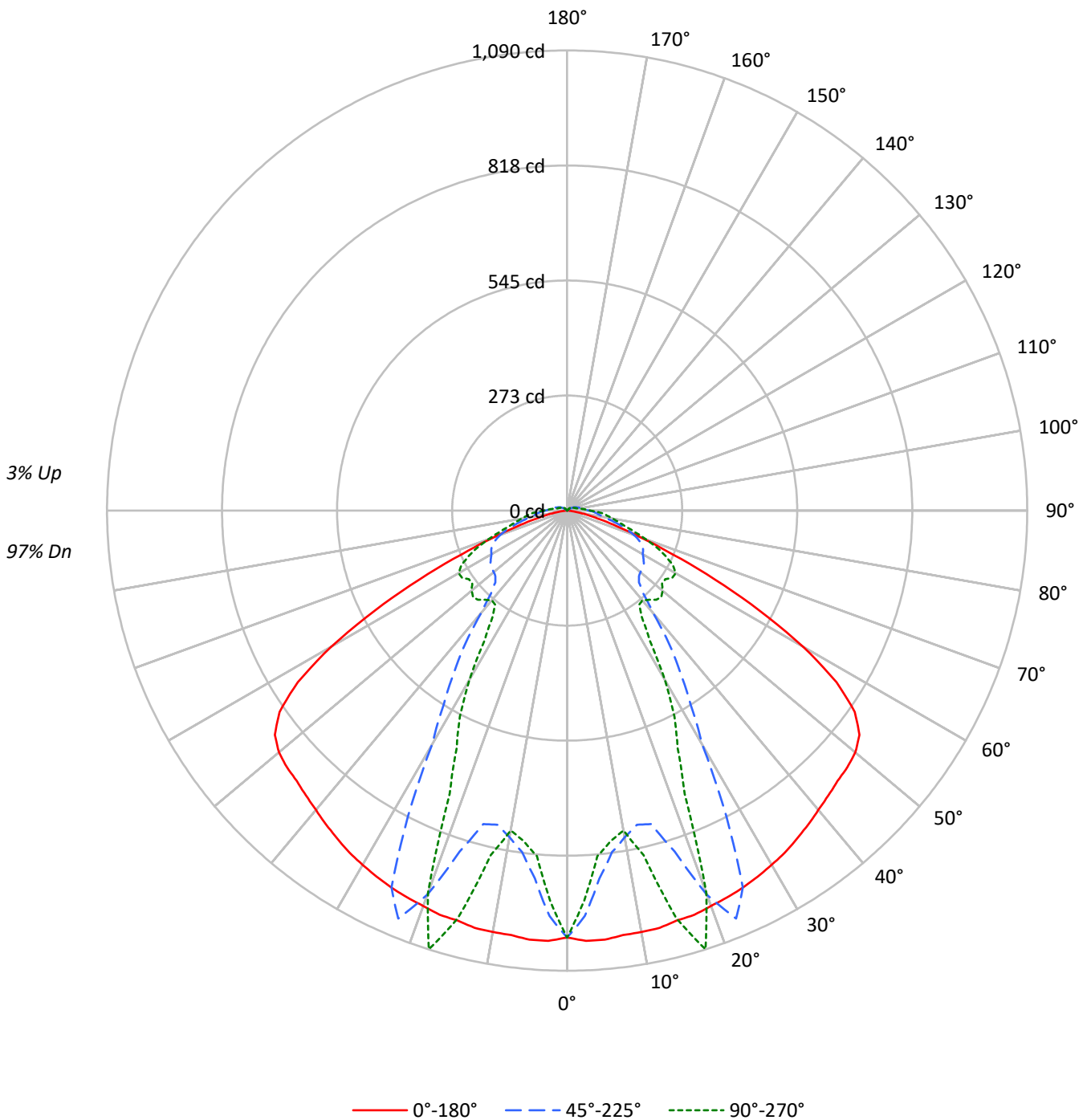
Lumens per Lamp: N/A
Luminaire Lumens: 2126.3 lumens
Efficiency: N/A
Efficacy: 155.2 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 13.7
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	50	30	10	0	
RCR																						
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97	97	97	97	
1	108	103	99	95	105	101	97	93	96	93	90	91	89	87	87	85	83	81	81	81	81	
2	99	91	84	79	96	89	83	78	85	80	75	81	77	73	77	74	71	69	69	69	69	
3	91	81	73	67	88	79	72	66	75	69	64	72	67	63	69	65	61	59	59	59	59	
4	84	72	64	57	81	71	63	57	68	61	56	65	59	54	62	57	53	51	51	51	51	
5	77	65	56	50	75	64	56	50	61	54	49	59	53	48	57	51	47	45	45	45	45	
6	72	59	50	44	70	58	50	44	56	49	43	54	47	43	52	46	42	40	40	40	40	
7	67	54	45	40	65	53	45	39	51	44	39	49	43	38	48	42	38	36	36	36	36	
8	62	49	41	36	61	49	41	35	47	40	35	46	39	35	44	38	34	32	32	32	32	
9	58	46	38	32	57	45	37	32	44	37	32	42	36	32	41	35	31	29	29	29	29	
10	55	42	35	30	54	42	34	30	40	34	29	39	33	29	38	33	29	27	27	27	27	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	65306	65306	65306
5°	65899	45374	39471
10°	65986	34257	29580
15°	66454	29107	32250
20°	67464	32609	26955
25°	68860	30072	15397
30°	70557	18005	10431
35°	72684	12261	6385
40°	75407	7885	5368
45°	79421	5701	5458
50°	85315	5167	5147
55°	88409	4919	4760
60°	77873	4492	4837
65°	54107	4225	4137
70°	31108	3592	3112
75°	17384	2712	2214
80°	9566	1915	1712
85°	4267	1536	1400



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	4.0
10°-20°	252.3	11.9
20°-30°	371.4	17.5
30°-40°	362.8	17.1
40°-50°	300.8	14.1
50°-60°	276.1	13.0
60°-70°	218.8	10.3
70°-80°	121.5	5.7
80°-90°	64.3	3.0
90°-100°	33.8	1.6
100°-110°	20.4	1.0
110°-120°	11.6	0.5
120°-130°	6.4	0.3
130°-140°	2.0	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°	707.7	33.3
0°-40°	1070.5	50.3
0°-60°	1647.3	77.5
0°-90°	2052.0	96.5
90°-120°	65.8	3.1
90°-150°	74.3	3.5
90°-180°	74.0	3.5
0°-180°	2126.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1011	1011	1011	1011	1011	
5°	1020	963	875	838	822	97
15°	1005	803	769	941	999	285
25°	985	766	984	671	619	455
35°	949	915	467	333	308	595
45°	906	414	241	275	299	702
55°	832	184	222	266	284	722
65°	386	120	197	250	259	390
75°	80	73	127	135	141	95
85°	8	36	70	85	88	12
90°	0	26	51	56	55	0
95°	0	21	40	41	39	0
105°	0	14	28	24	22	1
115°	0	2	18	17	16	0
125°	0	0	8	13	13	0
135°	0	0	0	6	7	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°	1011.2	1011.2	1011.2	1011.2	1011.2
2.5°	1020.2	1002.0	961.3	933.8	924.5
5°	1020.2	963.0	874.9	837.6	821.9
7.5°	1014.1	913.6	815.8	799.6	789.4
10°	1013.6	860.9	785.6	772.1	769.2
12.5°	1012.4	831.7	762.3	810.3	836.2
15°	1005.0	802.7	768.7	941.4	999.3
17.5°	1003.9	781.1	846.6	1065.1	1089.6
20°	996.5	764.0	968.0	1049.5	963.2
22.5°	991.7	752.1	1046.1	844.3	726.9
25°	985.1	766.4	984.4	671.1	619.1
27.5°	977.5	812.2	816.0	584.2	549.8
30°	968.9	883.9	639.8	510.6	462.9
32.5°	960.4	936.4	544.6	419.2	363.1
35°	948.8	914.8	466.7	333.4	307.8
37.5°	937.8	815.1	395.7	287.8	280.5
40°	925.7	656.6	317.8	269.8	277.4
42.5°	915.5	520.6	266.9	267.9	286.6
45°	905.8	413.7	240.8	274.8	298.8
47.5°	900.1	328.9	230.4	283.1	302.3
50°	891.3	263.6	226.6	284.7	295.4
52.5°	872.8	217.3	225.4	276.0	283.3
55°	831.9	184.3	222.0	266.0	283.8
57.5°	756.6	163.9	214.4	268.1	295.4
60°	646.4	148.0	206.9	275.0	296.9
62.5°	514.4	133.5	202.8	269.3	282.8
65°	385.7	119.7	197.1	250.1	259.3
67.5°	270.0	107.8	184.3	226.1	231.1
70°	183.6	96.4	168.4	195.5	197.6
72.5°	123.5	85.0	148.7	163.9	167.2
75°	80.5	72.9	126.8	135.4	141.3
77.5°	51.3	62.0	105.2	116.1	123.7
80°	31.8	51.3	88.6	104.3	109.0
82.5°	17.8	42.7	76.7	93.1	95.7
85°	8.5	35.9	69.8	84.8	88.3
87.5°	2.1	30.4	61.5	70.3	70.3
90°	0.2	26.1	51.1	55.8	55.3
92.5°	0.2	23.0	44.4	47.5	46.5
95°	0.5	20.7	39.7	41.3	39.4
97.5°	0.5	19.5	36.6	35.4	32.5
100°	0.5	18.0	33.2	30.2	27.1
102.5°	0.5	16.1	30.4	26.6	24.0
105°	0.5	13.8	27.8	24.0	21.6
107.5°	0.5	10.9	24.9	21.8	19.9
110°	0.5	7.8	22.3	20.2	18.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	4.7	20.2	18.8	17.6
115°	0.5	1.7	18.0	17.1	15.9
117.5°	0.5	0.7	15.9	16.4	15.0
120°	0.5	0.7	13.3	15.4	14.2
122.5°	0.5	0.7	10.9	14.5	13.8
125°	0.5	0.5	8.3	13.3	13.1
127.5°	0.5	0.5	5.7	11.6	12.1
130°	0.5	0.5	2.8	9.5	10.7
132.5°	0.5	0.5	0.5	7.8	8.8
135°	0.5	0.5	0.5	5.7	7.1
137.5°	0.5	0.5	0.5	2.8	5.2
140°	0.5	0.5	0.5	0.5	2.1
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)