

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: P290299

Luminaire Tested: **4SSRK-SLC-80-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290299  
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-80-L850-CD1-U  
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 80 CRI 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8953.4 lumens  
Efficiency: N/A  
Efficacy: 142.3 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

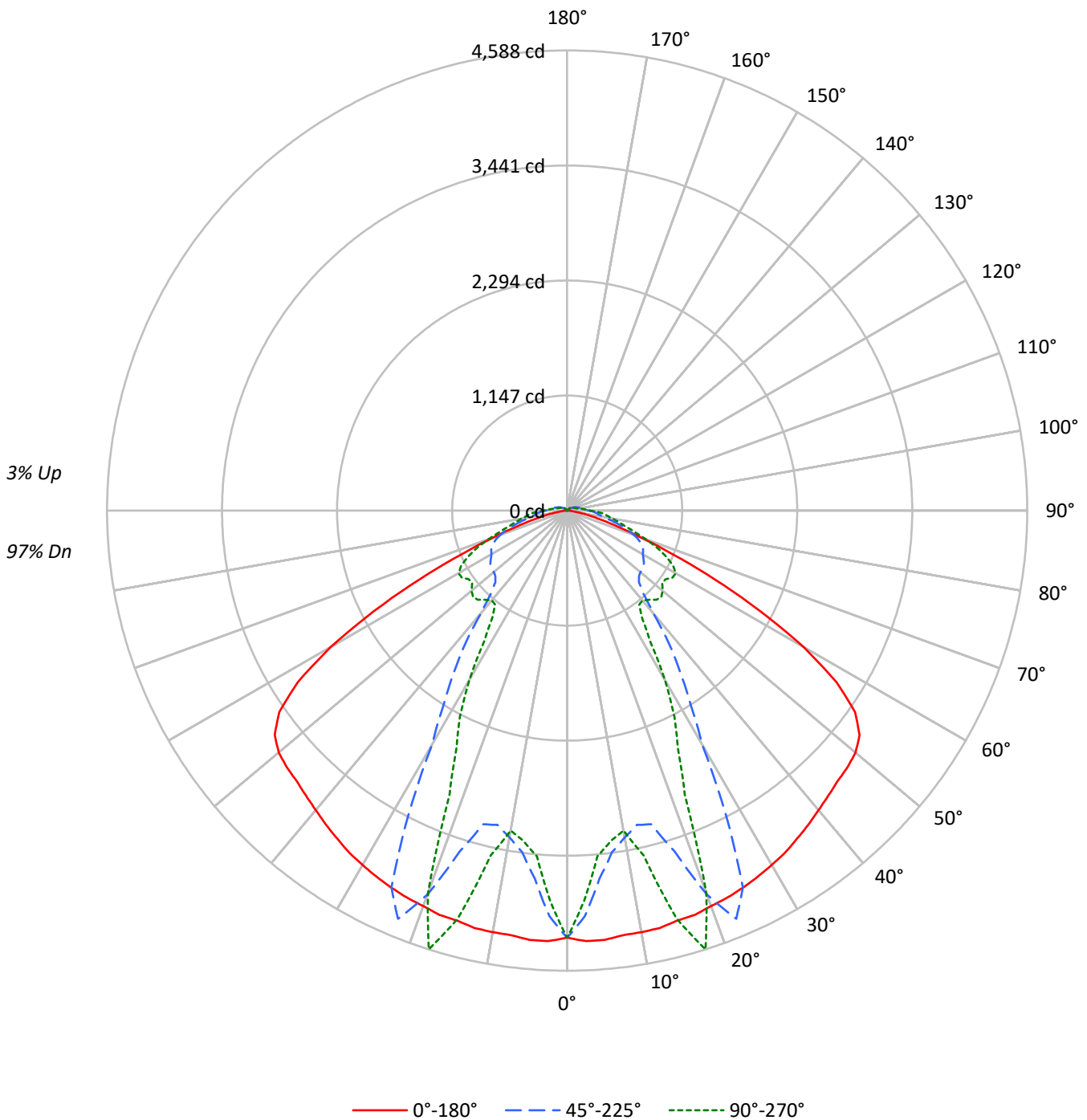
Input Watts (W): 62.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	274994	274994	274994
5°	277497	191061	166210
10°	277851	144247	124559
15°	279832	122570	135801
20°	284074	137309	113507
25°	289951	126624	64837
30°	297114	75812	43919
35°	306042	51622	26883
40°	317527	33196	22604
45°	334414	24006	22980
50°	359238	21755	21673
55°	372275	20718	20045
60°	327924	18908	20365
65°	227817	17792	17423
70°	130971	15124	13103
75°	73207	11422	9321
80°	40311	8062	7208
85°	18070	6471	5900



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	353.7	4.0
10°-20°	1062.4	11.9
20°-30°	1563.8	17.5
30°-40°	1527.6	17.1
40°-50°	1266.4	14.1
50°-60°	1162.7	13.0
60°-70°	921.3	10.3
70°-80°	511.6	5.7
80°-90°	270.9	3.0
90°-100°	142.5	1.6
100°-110°	85.8	1.0
110°-120°	49.0	0.5
120°-130°	27.0	0.3
130°-140°	8.5	0.1
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°	2979.9	33.3
0°-40°	4507.5	50.3
0°-60°	6936.6	77.5
0°-90°	8640.4	96.5
90°-120°	277.2	3.1
90°-150°	313.0	3.5
90°-180°	313.0	3.5
0°-180°	8953.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4258	4258	4258	4258	4258	
5°	4296	4055	3684	3527	3461	408
15°	4232	3380	3237	3964	4208	1200
25°	4148	3227	4145	2826	2607	1917
35°	3995	3852	1965	1404	1296	2507
45°	3814	1742	1014	1157	1258	2958
55°	3503	776	935	1120	1195	3042
65°	1624	504	830	1053	1092	1644
75°	339	307	534	570	595	402
85°	36	151	294	357	372	50
90°	1	110	215	235	233	2
95°	2	87	167	174	166	1
105°	2	58	117	101	91	2
115°	2	7	76	72	67	2
125°	2	2	35	56	55	2
135°	2	2	2	24	30	2
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: P290299

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4258	4258	4258	4258	4258
2.5°	4296	4219	4048	3932	3893
5°	4296	4055	3684	3527	3461
7.5°	4270	3847	3435	3367	3324
10°	4268	3625	3308	3251	3239
12.5°	4263	3502	3210	3412	3521
15°	4232	3380	3237	3964	4208
17.5°	4227	3289	3565	4485	4588
20°	4196	3217	4076	4419	4056
22.5°	4176	3167	4405	3555	3061
25°	4148	3227	4145	2826	2607
27.5°	4116	3420	3436	2460	2315
30°	4080	3722	2694	2150	1949
32.5°	4044	3943	2293	1765	1529
35°	3995	3852	1965	1404	1296
37.5°	3949	3432	1666	1212	1181
40°	3898	2765	1338	1136	1168
42.5°	3855	2192	1124	1128	1207
45°	3814	1742	1014	1157	1258
47.5°	3790	1385	970	1192	1273
50°	3753	1110	954	1199	1244
52.5°	3675	915	949	1162	1193
55°	3503	776	935	1120	1195
57.5°	3186	690	903	1129	1244
60°	2722	623	871	1158	1250
62.5°	2166	562	854	1134	1191
65°	1624	504	830	1053	1092
67.5°	1137	454	776	952	973
70°	773	406	709	823	832
72.5°	520	358	626	690	704
75°	339	307	534	570	595
77.5°	216	261	443	489	521
80°	134	216	373	439	459
82.5°	75	180	323	392	403
85°	36	151	294	357	372
87.5°	9	128	259	296	296
90°	1	110	215	235	233
92.5°	1	97	187	200	196
95°	2	87	167	174	166
97.5°	2	82	154	149	137
100°	2	76	140	127	114
102.5°	2	68	128	112	101
105°	2	58	117	101	91
107.5°	2	46	105	92	84
110°	2	33	94	85	79



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2	20	85	79	74
115°	2	7	76	72	67
117.5°	2	3	67	69	63
120°	2	3	56	65	60
122.5°	2	3	46	61	58
125°	2	2	35	56	55
127.5°	2	2	24	49	51
130°	2	2	12	40	45
132.5°	2	2	2	33	37
135°	2	2	2	24	30
137.5°	2	2	2	12	22
140°	2	2	2	2	9
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)