

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: P290122

Luminaire Tested: **4SSRK-LN-80-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-10)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SSRK-LN-80-L840-CD1-U
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 80 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8503.0 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.03 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

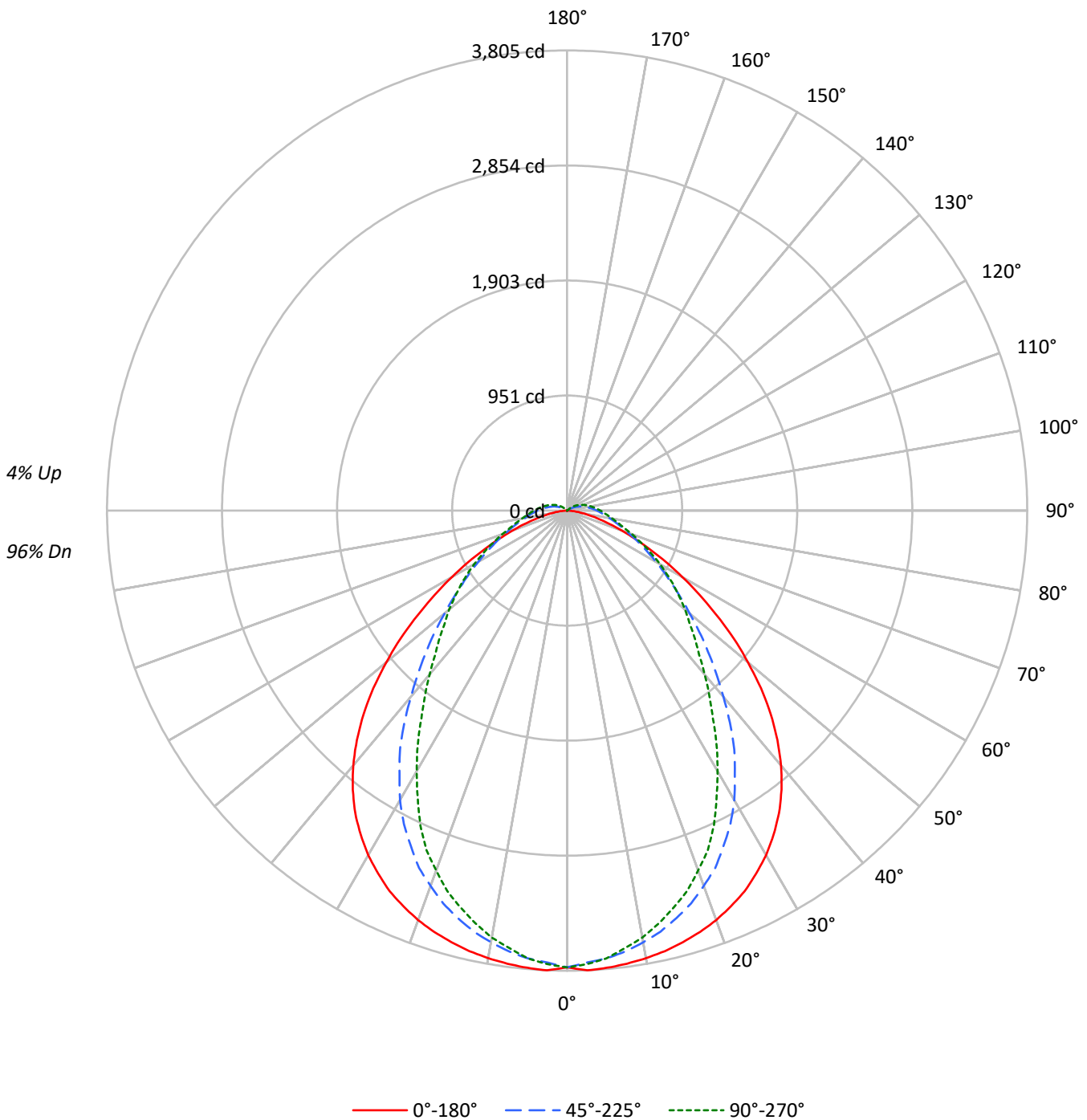
Input Watts (W): 62.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	103	103	98	98	98	96				
1	108	104	99	96	105	101	97	94	96	93	90	91	89	86	87	85	83	81				
2	99	91	85	80	96	89	83	78	85	80	76	81	77	74	78	74	71	69				
3	91	81	74	68	88	79	72	67	76	70	65	73	68	63	70	65	62	59				
4	84	73	65	58	81	71	64	58	68	62	56	65	60	55	63	58	54	52				
5	78	66	57	51	75	64	56	51	62	55	50	59	53	49	57	52	48	46				
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	47	43	41				
7	67	54	46	40	65	53	46	40	52	45	39	50	44	39	48	43	38	36				
8	63	50	42	36	61	49	41	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	38	33	57	45	38	33	44	37	32	43	36	32	41	36	32	30				
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	38	33	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	243930	243930	243930
5°	245135	192773	178504
10°	244649	158070	137865
15°	244324	132112	109693
20°	243927	111235	88629
25°	242767	93479	71403
30°	239585	77782	56042
35°	234032	63339	43623
40°	224257	49869	34273
45°	208856	38969	27236
50°	186654	30125	22178
55°	160154	23444	18015
60°	132639	18387	14484
65°	104931	14470	11440
70°	80988	11455	8993
75°	59602	9305	7159
80°	41816	7673	5936
85°	24094	6471	5060



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.6	4.2
10°-20°	993.0	11.7
20°-30°	1431.1	16.8
30°-40°	1550.2	18.2
40°-50°	1373.0	16.1
50°-60°	1044.7	12.3
60°-70°	696.0	8.2
70°-80°	430.0	5.1
80°-90°	269.4	3.2
90°-100°	177.0	2.1
100°-110°	108.5	1.3
110°-120°	56.0	0.7
120°-130°	18.4	0.2
130°-140°	1.1	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2778.6	32.7
0°-40°	4328.8	50.9
0°-60°	6746.5	79.3
0°-90°	8142.0	95.8
90°-120°	341.5	4.0
90°-150°	361.0	4.2
90°-180°	361.0	4.2
0°-180°	8503.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3777	3777	3777	3777	3777	
5°	3795	3771	3717	3731	3717	361
15°	3695	3625	3489	3442	3399	1044
25°	3473	3310	3060	2929	2871	1598
35°	3055	2769	2411	2184	2103	1904
45°	2382	2009	1646	1521	1491	1827
55°	1507	1230	1058	1071	1074	1354
65°	748	656	675	714	717	755
75°	276	336	435	464	457	305
85°	48	173	294	324	319	59
90°	2	126	245	276	274	3
95°	5	89	203	235	234	3
105°	3	35	127	162	166	4
115°	3	3	65	101	110	3
125°	2	2	2	44	55	2
135°	0	0	0	0	0	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°	3777	3777	3777	3777	3777
2.5°	3805	3784	3741	3766	3754
5°	3795	3771	3717	3731	3717
7.5°	3779	3749	3677	3683	3650
10°	3758	3718	3625	3615	3585
12.5°	3731	3675	3566	3526	3497
15°	3695	3625	3489	3442	3399
17.5°	3654	3564	3406	3349	3298
20°	3603	3490	3302	3223	3167
22.5°	3541	3409	3199	3084	3039
25°	3473	3310	3060	2929	2871
27.5°	3384	3201	2923	2759	2676
30°	3290	3072	2764	2575	2487
32.5°	3177	2931	2580	2379	2301
35°	3055	2769	2411	2184	2103
37.5°	2911	2594	2210	2002	1931
40°	2753	2404	2010	1827	1771
42.5°	2573	2211	1822	1664	1616
45°	2382	2009	1646	1521	1491
47.5°	2174	1807	1481	1392	1370
50°	1950	1605	1321	1272	1273
52.5°	1737	1414	1185	1172	1169
55°	1507	1230	1058	1071	1074
57.5°	1299	1059	950	974	977
60°	1101	906	847	884	889
62.5°	920	775	759	797	796
65°	748	656	675	714	717
67.5°	602	559	605	639	637
70°	478	472	537	573	571
72.5°	372	399	484	515	507
75°	276	336	435	464	457
77.5°	203	284	392	420	415
80°	139	241	355	384	378
82.5°	89	205	323	351	347
85°	48	173	294	324	319
87.5°	18	147	268	298	296
90°	2	126	245	276	274
92.5°	3	107	223	255	255
95°	5	89	203	235	234
97.5°	4	75	181	216	216
100°	4	62	161	196	198
102.5°	4	49	144	178	182
105°	3	35	127	162	166
107.5°	3	20	110	147	152
110°	3	5	95	131	137



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3	3	80	116	122
115°	3	3	65	101	110
117.5°	2	2	48	88	96
120°	2	2	30	74	82
122.5°	2	2	13	59	70
125°	2	2	2	44	55
127.5°	2	2	1	26	39
130°	2	2	1	10	24
132.5°	2	2	1	1	7
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
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)