

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: P289938

Luminaire Tested: **4SSRK-LW-60-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SSRK-LW-60-L840-CD1-U
Description: 6000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 80 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5665.9 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

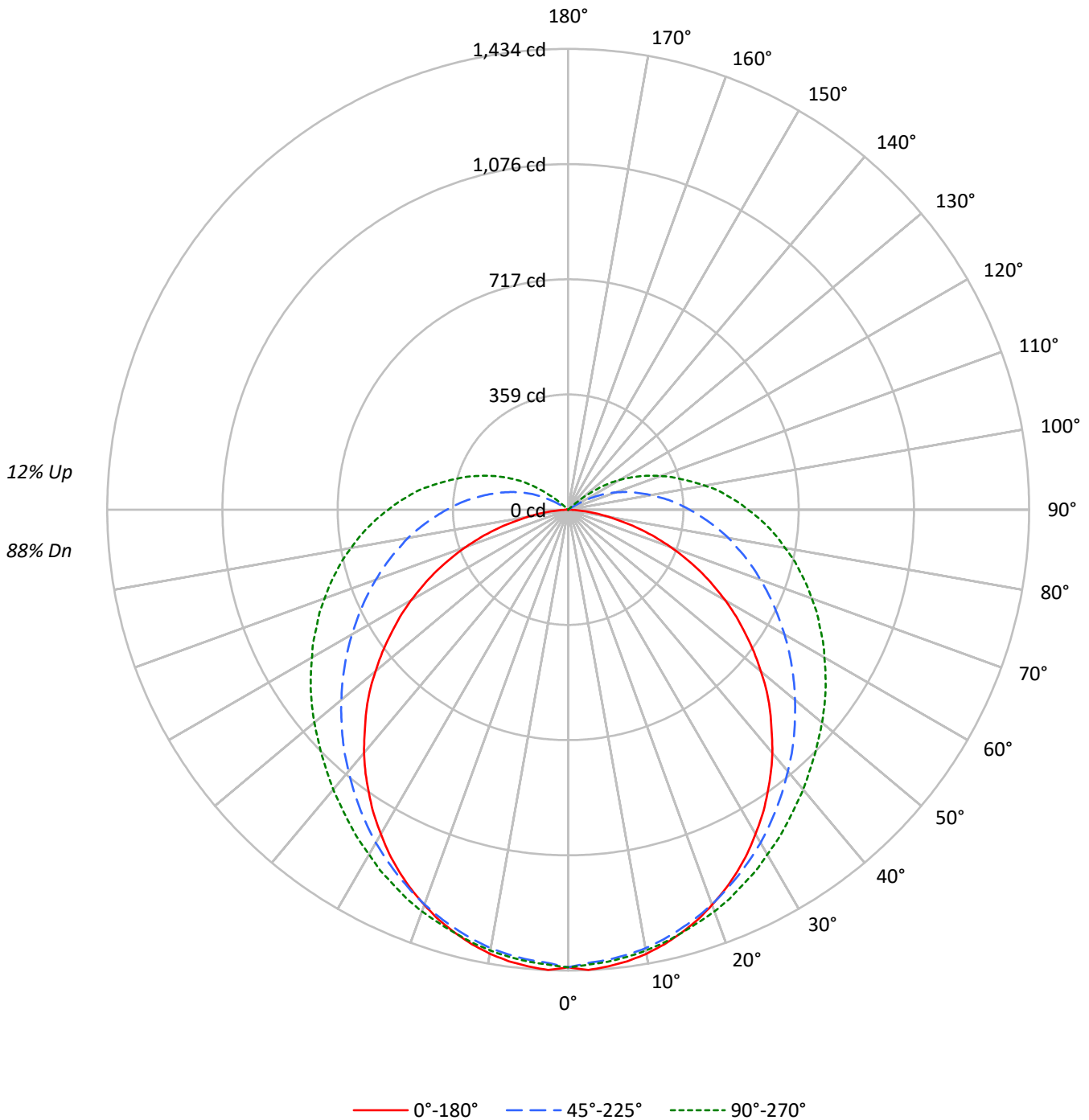
Input Watts (W): 44.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88
1	103	97	92	87	99	94	89	84	87	83	79	81	78	75	75	73	71	67
2	93	83	75	68	89	80	73	67	74	68	63	69	64	60	65	61	57	54
3	84	72	63	56	80	70	61	54	65	58	52	60	54	50	56	51	47	44
4	76	63	54	47	73	61	52	46	57	50	44	53	47	42	50	44	40	37
5	70	56	47	40	67	54	46	39	51	43	37	48	41	36	45	39	34	32
6	65	50	41	34	62	49	40	34	46	38	32	43	36	31	40	35	30	28
7	60	46	36	30	57	44	36	30	42	34	28	39	32	27	37	31	26	24
8	55	41	33	27	53	40	32	26	38	31	25	36	29	24	34	28	24	21
9	52	38	30	24	50	37	29	23	35	28	23	33	27	22	31	25	21	19
10	49	35	27	21	47	34	26	21	32	25	21	31	24	20	29	23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	91960	91960	91960
5°	92163	72913	67805
10°	91330	60424	53573
15°	90086	51137	43993
20°	88587	44029	37226
25°	86908	38326	32003
30°	84867	33682	27915
35°	82742	29731	24658
40°	80473	26369	22004
45°	77887	23514	19785
50°	74920	21010	17955
55°	71479	18804	16395
60°	67946	16861	14997
65°	63463	15126	13779
70°	57353	13582	12705
75°	49323	12192	11699
80°	38085	10943	10761
85°	22939	9678	9908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.5	2.4
10°-20°	383.8	6.8
20°-30°	582.0	10.3
30°-40°	710.3	12.5
40°-50°	765.0	13.5
50°-60°	751.3	13.3
60°-70°	678.9	12.0
70°-80°	565.2	10.0
80°-90°	433.5	7.7
90°-100°	313.8	5.5
100°-110°	202.7	3.6
110°-120°	109.3	1.9
120°-130°	34.5	0.6
130°-140°	1.3	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°	1100.2	19.4
0°-40°	1810.5	32.0
0°-60°	3326.7	58.7
0°-90°	5004.3	88.3
90°-120°	625.8	11.0
90°-150°	661.7	11.7
90°-180°	662.0	11.7
0°-180°	5665.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1424	1424	1424	1424	1424	
5°	1427	1422	1406	1416	1412	135
15°	1362	1359	1350	1365	1363	384
25°	1243	1245	1255	1282	1287	573
35°	1080	1094	1132	1177	1189	676
45°	888	922	993	1058	1083	685
55°	673	739	849	943	977	603
65°	452	550	706	824	864	446
75°	228	379	570	702	747	242
85°	46	232	440	577	625	55
90°	2	174	378	513	560	3
95°	3	127	320	453	497	2
105°	3	45	208	326	366	3
115°	2	2	105	208	246	2
125°	2	1	1	83	118	1
135°	0	0	0	0	0	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°	1423.9	1423.9	1423.9	1423.9	1423.9
2.5°	1433.6	1427.6	1411.9	1421.6	1417.1
5°	1426.8	1421.6	1405.9	1416.4	1411.9
7.5°	1417.1	1411.9	1396.9	1407.4	1403.6
10°	1402.9	1397.6	1385.7	1396.1	1393.1
12.5°	1384.9	1381.2	1369.9	1382.7	1379.7
15°	1362.4	1359.4	1350.5	1365.4	1363.2
17.5°	1338.5	1335.5	1330.2	1346.0	1346.7
20°	1308.5	1307.8	1307.0	1327.2	1330.2
22.5°	1277.8	1278.5	1281.5	1306.3	1310.8
25°	1243.3	1244.8	1254.6	1281.5	1286.8
27.5°	1206.6	1211.9	1226.1	1257.6	1265.8
30°	1165.4	1174.4	1196.9	1229.9	1238.8
32.5°	1125.0	1134.7	1164.7	1203.6	1215.6
35°	1080.1	1094.3	1131.7	1176.7	1188.7
37.5°	1035.1	1051.6	1098.0	1146.7	1161.7
40°	987.9	1009.7	1062.8	1117.5	1137.0
42.5°	937.0	967.7	1029.1	1087.6	1109.3
45°	888.3	922.0	993.2	1058.3	1083.1
47.5°	838.1	878.6	957.2	1029.9	1056.1
50°	782.7	831.4	921.3	1001.4	1030.6
52.5°	728.8	786.5	885.3	972.2	1004.4
55°	672.6	739.3	848.6	943.0	977.4
57.5°	620.2	691.3	813.4	912.3	949.0
60°	564.0	644.9	776.7	883.8	920.5
62.5°	507.1	598.5	740.8	853.1	894.3
65°	452.4	550.5	705.6	823.9	863.6
67.5°	394.0	507.1	671.1	792.4	837.4
70°	338.5	462.1	636.7	762.5	806.7
72.5°	283.1	418.7	602.9	732.5	777.5
75°	228.4	379.0	570.0	701.8	746.8
77.5°	173.8	337.1	536.3	671.1	718.3
80°	126.6	300.3	506.3	639.6	685.3
82.5°	86.1	265.9	472.6	609.7	656.1
85°	45.7	232.2	439.7	576.7	624.7
87.5°	13.5	202.2	407.5	544.5	592.5
90°	1.5	174.5	377.5	513.1	559.5
92.5°	2.2	150.5	349.0	484.6	529.5
95°	3.0	126.6	319.8	453.1	497.3
97.5°	3.0	105.6	289.9	420.9	468.1
100°	3.0	85.4	261.4	388.0	431.4
102.5°	3.0	66.7	234.4	355.0	397.7
105°	3.0	44.9	208.2	325.8	366.3
107.5°	3.0	22.5	182.8	297.4	337.1
110°	3.0	4.5	157.3	268.1	306.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.2	3.0	132.6	237.4	276.4
115°	2.2	2.2	104.9	207.5	246.4
117.5°	2.2	2.2	74.9	179.8	215.0
120°	2.2	1.5	43.4	150.5	185.8
122.5°	1.5	1.5	14.2	116.8	155.0
125°	1.5	0.7	0.7	83.1	118.3
127.5°	1.5	0.7	0.0	46.4	80.1
130°	1.5	0.7	0.0	13.5	45.7
132.5°	1.5	0.7	0.0	0.0	9.7
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
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)