

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: P289664

Luminaire Tested: **4SSRK-40-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SSRK-40-L830-CD1-U
Description: 4000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH NO LENS AND 80 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4344.8 lumens
Efficiency: N/A
Efficacy: 156.9 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

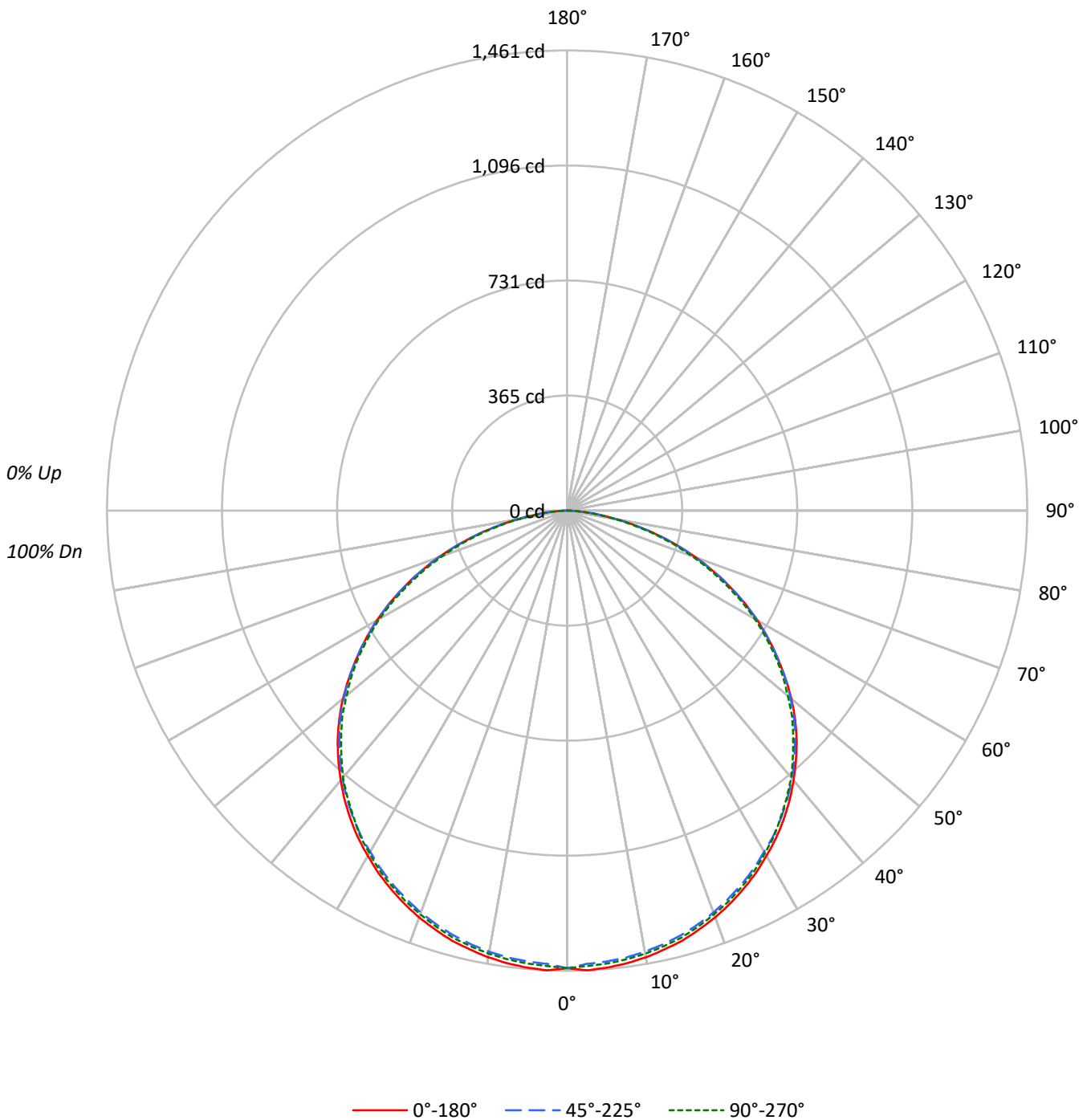
Input Watts (W): 27.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84					84			
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42					42			
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37					37			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	26	37	30	25	37	30	25	36	30	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	93807	93807	93807
5°	94075	74542	69322
10°	93752	62007	54942
15°	93458	52849	45291
20°	93035	45747	38177
25°	92619	40013	32730
30°	92178	35205	28298
35°	91774	31173	24564
40°	91096	27545	21419
45°	90346	24226	18535
50°	88943	21115	15922
55°	86623	18081	13537
60°	83981	15133	11211
65°	79778	12202	8852
70°	73872	9217	6610
75°	63834	6301	4473
80°	48975	3519	2415
85°	29264	1272	795



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.7	3.2
10°-20°	396.6	9.1
20°-30°	607.8	14.0
30°-40°	745.1	17.1
40°-50°	789.3	18.2
50°-60°	727.8	16.8
60°-70°	559.3	12.9
70°-80°	310.0	7.1
80°-90°	71.3	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	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°	1142.1	26.3
0°-40°	1887.1	43.4
0°-60°	3404.2	78.4
0°-90°	4344.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4344.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1452	1452	1452	1452	1452	
5°	1456	1450	1437	1451	1444	138
15°	1413	1407	1396	1408	1403	399
25°	1325	1320	1310	1323	1316	611
35°	1198	1192	1187	1191	1184	749
45°	1030	1027	1023	1022	1015	794
55°	815	821	816	813	807	729
65°	569	570	569	562	555	562
75°	296	296	295	290	286	313
85°	58	59	58	55	50	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1452.5	1452.5	1452.5	1452.5	1452.5
2.5°	1461.1	1454.0	1440.6	1454.0	1447.3
5°	1456.4	1450.2	1437.3	1451.1	1443.5
7.5°	1449.7	1444.4	1431.5	1444.9	1437.3
10°	1440.1	1434.4	1422.0	1436.3	1428.7
12.5°	1427.2	1422.0	1410.0	1423.4	1416.7
15°	1413.4	1406.7	1395.7	1408.1	1403.4
17.5°	1394.3	1389.0	1378.0	1390.0	1384.7
20°	1374.2	1369.0	1358.0	1369.9	1364.2
22.5°	1351.3	1346.1	1334.6	1347.5	1341.8
25°	1325.0	1320.3	1309.8	1323.1	1316.0
27.5°	1297.4	1293.5	1282.1	1293.1	1288.8
30°	1265.8	1263.5	1251.0	1259.6	1255.8
32.5°	1233.8	1229.5	1221.0	1227.6	1223.8
35°	1198.0	1192.3	1186.6	1190.9	1184.2
37.5°	1159.8	1156.0	1149.8	1153.6	1146.0
40°	1118.3	1114.9	1110.2	1111.1	1106.8
42.5°	1075.3	1071.5	1067.7	1065.8	1061.0
45°	1030.4	1027.1	1023.3	1021.8	1014.7
47.5°	981.7	979.3	977.0	973.6	968.4
50°	929.2	930.2	925.9	923.0	913.9
52.5°	872.9	878.6	872.4	868.1	862.8
55°	815.1	821.3	816.0	812.7	807.0
57.5°	757.8	760.6	757.3	754.9	747.3
60°	697.1	699.5	697.1	691.9	688.1
62.5°	634.6	637.5	632.7	628.9	623.6
65°	568.7	570.1	569.2	561.5	554.8
67.5°	502.3	504.7	501.8	496.6	489.9
70°	436.0	434.5	432.1	428.3	419.7
72.5°	365.8	365.8	365.3	358.1	353.8
75°	295.6	296.0	294.6	289.8	285.5
77.5°	225.4	230.6	226.8	222.0	217.3
80°	162.8	166.2	162.8	156.6	153.8
82.5°	104.1	108.9	106.0	99.8	98.8
85°	58.3	59.2	57.8	54.9	50.1
87.5°	22.0	22.9	23.4	19.1	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)