

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: P289816

Luminaire Tested: **8SSRK-TS-12-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289816  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-6)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-TS-12-L830-CD1-U  
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 80 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10244.9 lumens  
Efficiency: N/A  
Efficacy: 126.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Semi-Direct

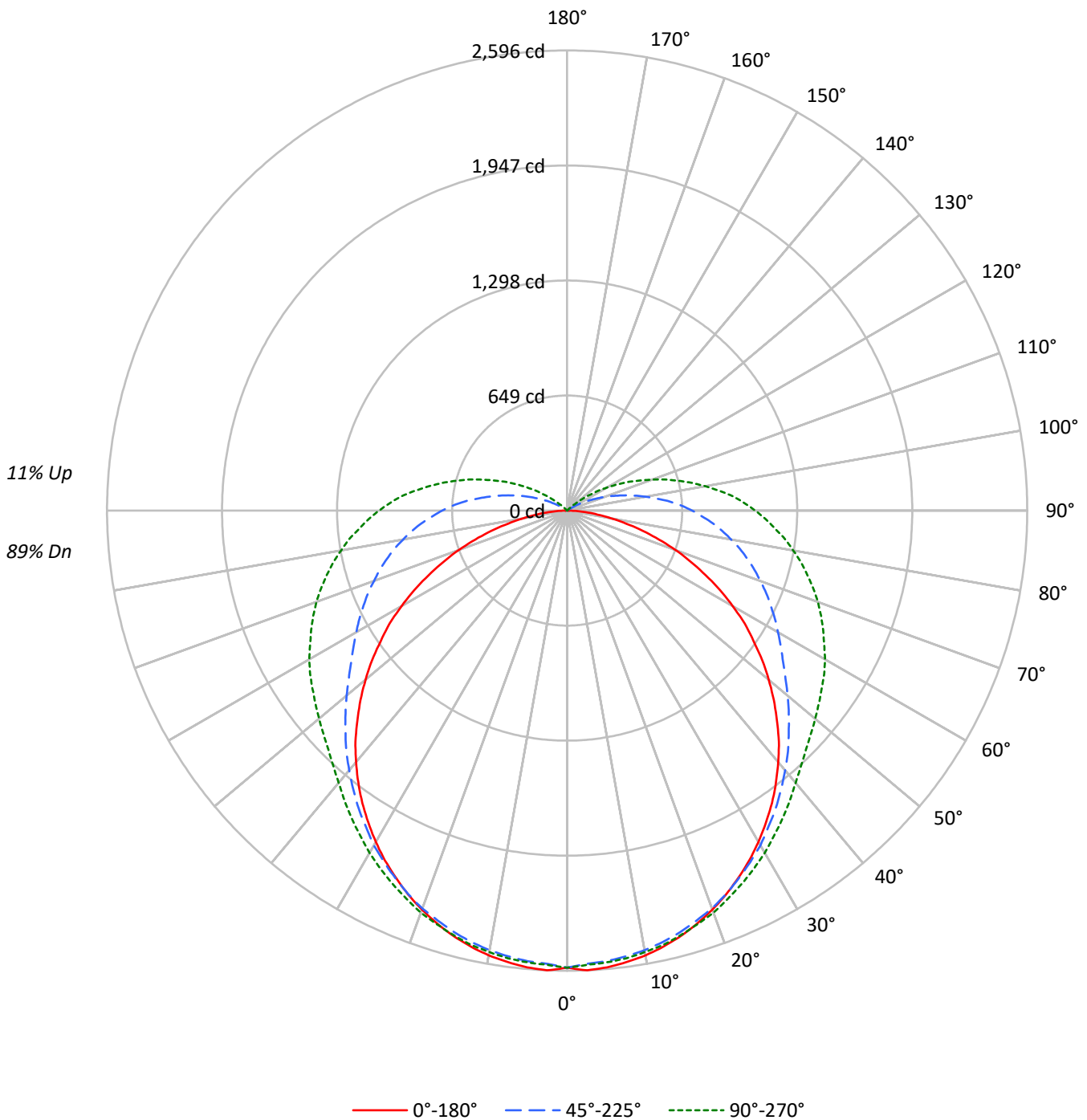
Input Watts (W): 80.8951  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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		92	92	92	89
1	103	97	91	87	99	94	89	84	87	83	79		81	78	75		76	73	71	68
2	93	83	75	68	89	80	73	67	75	68	63		70	65	60		65	61	57	54
3	84	72	63	56	80	69	61	54	65	58	52		61	55	50		57	52	47	45
4	76	63	54	46	73	61	52	45	57	50	44		53	47	42		50	45	40	37
5	70	56	47	39	67	54	45	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		41	35	30	28
7	60	46	36	30	57	44	36	29	42	34	28		39	33	28		37	31	27	24
8	56	41	33	27	53	40	32	26	38	31	25		36	29	25		34	28	24	22
9	52	38	29	24	50	37	29	23	35	28	23		33	27	22		31	26	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°	83270	83270	83270
5°	83695	66242	61437
10°	83239	55005	48632
15°	82571	46722	40013
20°	81699	40342	33781
25°	80659	35079	28923
30°	79535	30774	25121
35°	78263	27043	21987
40°	76744	23813	19400
45°	74909	21011	17407
50°	72774	18588	15915
55°	70199	16547	14707
60°	67283	14974	13685
65°	63098	13636	12708
70°	58172	12425	11849
75°	51249	11311	10990
80°	42492	10211	10165
85°	31211	9127	9344



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.0	2.4
10°-20°	699.0	6.8
20°-30°	1061.4	10.4
30°-40°	1290.2	12.6
40°-50°	1377.0	13.4
50°-60°	1350.4	13.2
60°-70°	1233.8	12.0
70°-80°	1047.1	10.2
80°-90°	814.8	8.0
90°-100°	574.5	5.6
100°-110°	341.5	3.3
110°-120°	161.7	1.6
120°-130°	46.8	0.5
130°-140°	2.7	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°	2004.4	19.6
0°-40°	3294.6	32.2
0°-60°	6022.0	58.8
0°-90°	9117.7	89.0
90°-120°	1077.7	10.5
90°-150°	1127.2	11.0
90°-180°	1127.0	11.0
0°-180°	10244.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2579	2579	2579	2579	2579	
5°	2587	2577	2552	2567	2559	246
15°	2484	2478	2462	2484	2480	701
25°	2286	2287	2290	2326	2326	1054
35°	2014	2025	2052	2102	2120	1259
45°	1674	1703	1768	1862	1906	1292
55°	1284	1339	1487	1681	1754	1150
65°	863	974	1267	1509	1593	855
75°	443	671	1053	1313	1403	469
85°	104	428	825	1087	1178	117
90°	8	317	705	970	1061	10
95°	8	213	582	840	938	7
105°	7	58	332	563	649	7
115°	5	5	135	309	382	5
125°	4	3	7	103	151	4
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



TEST NUMBER: P289816

CATALOG NUMBER: 8SSRK-TS-12-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2578.7	2578.7	2578.7	2578.7	2578.7
2.5°	2596.1	2586.7	2558.6	2573.3	2565.3
5°	2586.7	2577.4	2551.9	2566.7	2558.6
7.5°	2569.3	2562.6	2537.2	2553.3	2547.9
10°	2547.9	2541.2	2518.5	2537.2	2529.2
12.5°	2518.5	2511.8	2493.1	2511.8	2509.1
15°	2483.7	2478.4	2462.3	2483.7	2479.7
17.5°	2442.3	2438.3	2424.9	2451.6	2446.3
20°	2395.5	2392.8	2388.8	2412.8	2414.2
22.5°	2344.6	2344.6	2342.0	2368.7	2370.0
25°	2285.8	2287.1	2289.8	2325.9	2325.9
27.5°	2225.6	2229.6	2236.3	2271.1	2279.1
30°	2158.7	2165.4	2180.1	2217.6	2229.6
32.5°	2087.8	2098.5	2114.6	2161.4	2173.4
35°	2014.3	2025.0	2051.7	2102.5	2119.9
37.5°	1935.4	1947.4	1982.2	2039.7	2062.4
40°	1852.4	1865.8	1912.6	1984.8	2004.9
42.5°	1768.2	1786.9	1844.4	1922.0	1952.7
45°	1674.5	1702.6	1768.2	1861.8	1905.9
47.5°	1580.9	1614.4	1695.9	1811.0	1864.5
50°	1484.6	1522.1	1623.7	1765.5	1827.0
52.5°	1388.3	1429.8	1552.8	1722.7	1789.6
55°	1284.0	1338.8	1487.3	1681.2	1753.5
57.5°	1187.7	1246.5	1428.4	1639.8	1718.7
60°	1079.4	1154.3	1373.6	1597.0	1679.9
62.5°	972.4	1062.0	1321.4	1552.8	1634.4
65°	862.7	973.7	1266.6	1508.7	1593.0
67.5°	754.3	884.1	1215.8	1463.2	1550.2
70°	651.4	806.5	1159.6	1416.4	1504.7
72.5°	543.0	738.3	1107.4	1366.9	1455.2
75°	442.7	671.4	1052.6	1313.4	1403.0
77.5°	341.1	608.6	999.1	1259.9	1352.2
80°	255.5	549.7	940.3	1203.7	1294.7
82.5°	173.9	490.9	882.7	1146.2	1241.2
85°	104.3	428.0	825.2	1087.4	1178.3
87.5°	46.8	373.2	762.4	1027.2	1122.2
90°	8.0	317.0	704.9	969.7	1060.6
92.5°	9.4	266.2	646.0	908.2	999.1
95°	8.0	212.7	581.8	839.9	937.6
97.5°	8.0	167.2	513.6	773.1	862.7
100°	6.7	124.4	448.1	702.2	790.5
102.5°	6.7	88.3	389.2	632.6	720.9
105°	6.7	57.5	331.7	563.1	648.7
107.5°	6.7	32.1	275.5	496.2	583.1
110°	6.7	12.0	224.7	436.0	508.2



TEST NUMBER: P289816

CATALOG NUMBER: 8SSRK-TS-12-L830-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	5.3	5.3	175.2	369.1	444.0
115°	5.3	5.3	135.1	309.0	382.5
117.5°	5.3	4.0	92.3	252.8	319.7
120°	5.3	4.0	57.5	202.0	259.5
122.5°	4.0	2.7	28.1	149.8	207.3
125°	4.0	2.7	6.7	103.0	151.1
127.5°	4.0	1.3	0.0	61.5	104.3
130°	2.7	1.3	0.0	29.4	61.5
132.5°	2.7	1.3	0.0	5.3	26.7
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)