

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: P289643

Luminaire Tested: **8SSRK-TB-60-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289643  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-1)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-TB-60-L840-CD1-U  
Description: 6000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 80 CRI 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5974.4 lumens  
Efficiency: N/A  
Efficacy: 144.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.08 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct

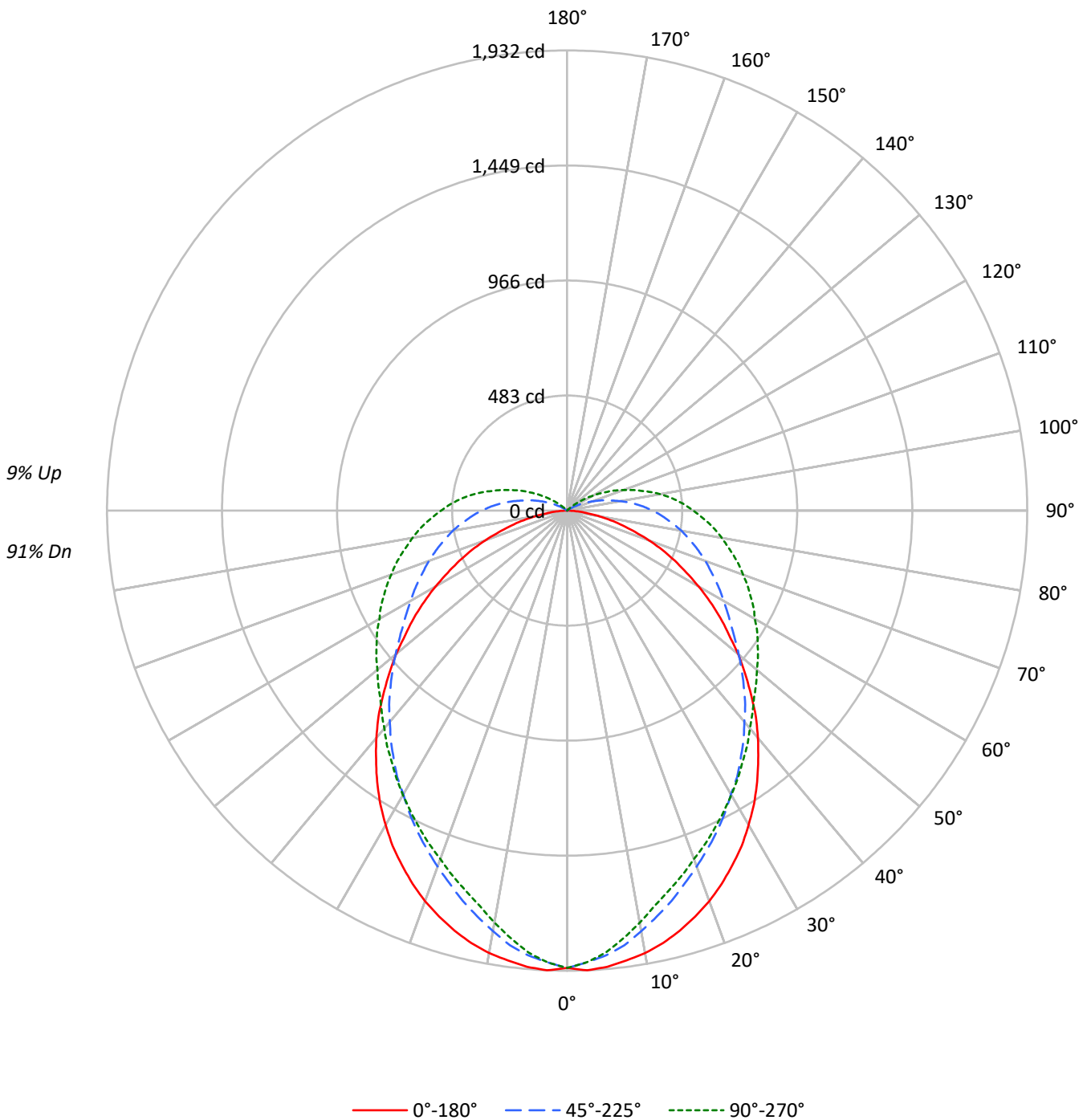
Input Watts (W): 41.3831  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	91					91			
1	104	98	93	89	100	95	90	86	89	85	82	84	80	78	78	76	74	71					71			
2	94	85	77	71	90	82	75	69	77	71	66	72	67	63	68	64	60	58					58			
3	85	74	65	58	82	72	64	57	67	60	55	63	58	53	60	55	51	48					48			
4	78	65	56	49	75	63	55	48	60	52	47	56	50	45	53	48	43	41					41			
5	72	58	49	42	69	57	48	41	53	46	40	50	44	39	48	42	38	35					35			
6	66	53	43	37	64	51	42	36	48	41	35	46	39	34	43	38	33	31					31			
7	61	48	39	32	59	46	38	32	44	37	31	42	35	30	40	34	29	27					27			
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	31	26	24					24			
9	54	40	32	26	52	39	31	26	37	30	25	35	29	24	34	28	24	22					22			
10	50	37	29	24	48	36	28	23	34	28	23	33	27	22	31	26	22	20					20			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	61993	61993	61993
5°	62214	48658	44720
10°	61635	39156	33776
15°	60709	32184	26636
20°	59497	26857	21786
25°	57931	22788	18271
30°	56143	19418	15533
35°	54034	16737	13327
40°	51604	14416	11555
45°	48824	12466	10134
50°	45941	10764	9060
55°	42978	9351	8190
60°	39763	8273	7413
65°	36490	7389	6778
70°	32667	6609	6190
75°	28003	5912	5660
80°	22635	5286	5175
85°	15381	4648	4723



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.7	3.0
10°-20°	484.4	8.1
20°-30°	700.9	11.7
30°-40°	815.3	13.6
40°-50°	829.9	13.9
50°-60°	772.2	12.9
60°-70°	672.4	11.3
70°-80°	547.4	9.2
80°-90°	414.6	6.9
90°-100°	287.5	4.8
100°-110°	169.0	2.8
110°-120°	79.2	1.3
120°-130°	22.6	0.4
130°-140°	1.2	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°	1363.1	22.8
0°-40°	2178.4	36.5
0°-60°	3780.5	63.3
0°-90°	5414.9	90.6
90°-120°	535.8	9.0
90°-150°	559.6	9.4
90°-180°	560.0	9.4
0°-180°	5974.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1920	1920	1920	1920	1920	
5°	1923	1908	1874	1874	1862	182
15°	1826	1778	1696	1666	1651	514
25°	1642	1569	1488	1475	1469	756
35°	1391	1318	1270	1282	1285	869
45°	1091	1049	1049	1091	1110	843
55°	786	783	840	940	976	702
65°	499	541	686	807	850	494
75°	242	354	550	677	723	258
85°	51	221	420	553	596	59
90°	0	160	357	487	529	3
95°	0	103	293	423	466	0
105°	0	24	166	281	320	0
115°	0	0	66	154	187	0
125°	0	0	3	51	76	0
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°	3	0	0	0	0	0
180°	0	0	0	0	0	0



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CATALOG NUMBER: 8SSRK-TB-60-L840-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1919.8	1919.8	1919.8	1919.8	1919.8
2.5°	1931.9	1922.8	1898.7	1907.7	1898.7
5°	1922.8	1907.7	1874.5	1874.5	1862.4
7.5°	1904.7	1886.6	1841.2	1826.1	1811.0
10°	1886.6	1859.4	1792.8	1774.7	1756.6
12.5°	1859.4	1820.1	1744.5	1717.3	1699.1
15°	1826.1	1777.7	1696.1	1665.9	1650.7
17.5°	1786.8	1732.4	1641.7	1617.5	1605.4
20°	1744.5	1681.0	1590.3	1569.1	1557.0
22.5°	1696.1	1623.5	1538.9	1523.8	1514.7
25°	1641.7	1569.1	1487.5	1475.4	1469.3
27.5°	1587.3	1508.6	1433.1	1427.0	1424.0
30°	1523.8	1448.2	1375.6	1378.6	1378.6
32.5°	1460.3	1384.7	1327.2	1333.3	1333.3
35°	1390.7	1318.2	1269.8	1281.9	1284.9
37.5°	1318.2	1254.7	1215.4	1233.5	1242.6
40°	1245.6	1188.2	1157.9	1185.2	1194.2
42.5°	1173.1	1118.6	1106.5	1139.8	1151.9
45°	1091.4	1049.1	1049.1	1091.4	1109.6
47.5°	1012.8	985.6	994.7	1049.1	1076.3
50°	937.2	916.1	940.3	1009.8	1040.0
52.5°	855.6	849.6	888.9	973.5	1009.8
55°	786.1	783.0	840.5	940.3	976.5
57.5°	710.5	719.6	798.2	907.0	946.3
60°	637.9	656.1	758.9	873.7	910.0
62.5°	565.4	601.6	722.6	840.5	882.8
65°	498.9	541.2	686.3	807.2	849.6
67.5°	432.3	486.8	650.0	777.0	819.3
70°	365.8	438.4	616.8	743.7	786.1
72.5°	299.3	396.1	583.5	710.5	755.8
75°	241.9	353.7	550.2	677.2	722.6
77.5°	187.4	320.5	517.0	650.0	689.3
80°	136.1	284.2	486.8	616.8	659.1
82.5°	87.7	254.0	453.5	583.5	628.9
85°	51.4	220.7	420.2	553.3	595.6
87.5°	21.2	187.4	390.0	520.0	562.3
90°	0.0	160.2	356.8	486.8	529.1
92.5°	0.0	133.0	326.5	456.5	498.9
95°	0.0	102.8	293.3	423.3	465.6
97.5°	0.0	78.6	260.0	390.0	432.3
100°	0.0	60.5	226.8	350.7	396.1
102.5°	0.0	42.3	193.5	314.4	359.8
105°	0.0	24.2	166.3	281.2	320.5
107.5°	0.0	12.1	139.1	247.9	287.2
110°	0.0	3.0	111.9	214.7	250.9



TEST NUMBER: P289643

CATALOG NUMBER: 8SSRK-TB-60-L840-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	87.7	184.4	220.7
115°	0.0	0.0	66.5	154.2	187.4
117.5°	0.0	0.0	45.4	127.0	157.2
120°	0.0	0.0	27.2	99.8	127.0
122.5°	0.0	0.0	12.1	75.6	99.8
125°	0.0	0.0	3.0	51.4	75.6
127.5°	0.0	0.0	0.0	30.2	51.4
130°	0.0	0.0	0.0	15.1	30.2
132.5°	0.0	0.0	0.0	3.0	12.1
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°	3.0	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)