

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-80-L935-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-80-L935-CD1-U
Description: 8000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 90 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6746.0 lumens
Efficiency: N/A
Efficacy: 119.1 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

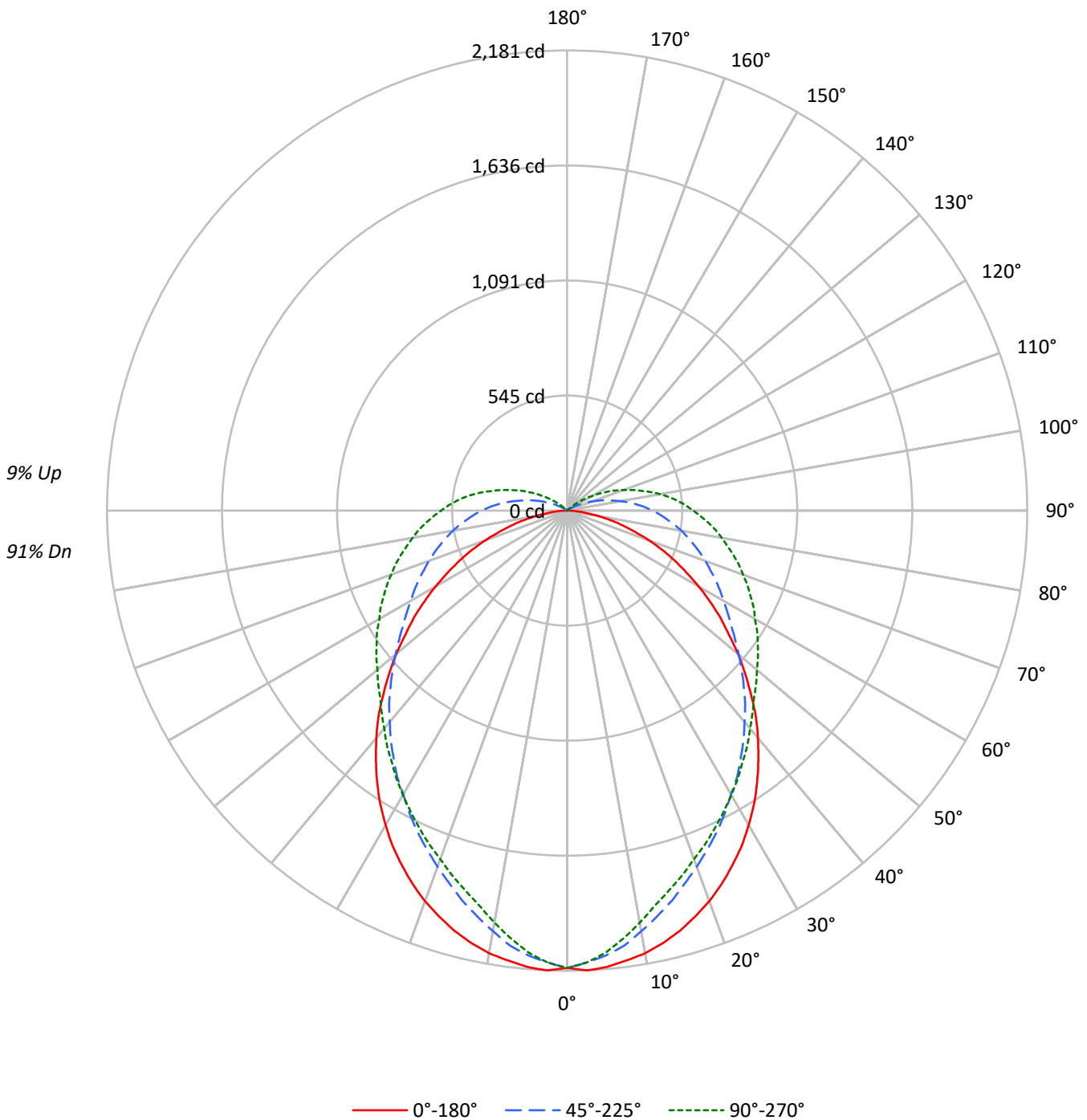
Input Watts (W): 56.6491
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	69998	69998	69998
5°	70251	54940	50494
10°	69593	44214	38137
15°	68548	36339	30076
20°	67181	30324	24600
25°	65411	25731	20631
30°	63390	21926	17539
35°	61012	18898	15048
40°	58270	16279	13047
45°	55132	14076	11443
50°	51877	12154	10229
55°	48527	10558	9248
60°	44899	9341	8370
65°	41200	8343	7653
70°	36891	7462	6989
75°	31615	6676	6391
80°	25545	5968	5843
85°	17356	5248	5333



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.7	3.0
10°-20°	547.0	8.1
20°-30°	791.4	11.7
30°-40°	920.6	13.6
40°-50°	937.1	13.9
50°-60°	871.9	12.9
60°-70°	759.2	11.3
70°-80°	618.1	9.2
80°-90°	468.2	6.9
90°-100°	324.7	4.8
100°-110°	190.8	2.8
110°-120°	89.5	1.3
120°-130°	25.5	0.4
130°-140°	1.4	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°	1539.1	22.8
0°-40°	2459.7	36.5
0°-60°	4268.7	63.3
0°-90°	6114.1	90.6
90°-120°	605.0	9.0
90°-150°	631.8	9.4
90°-180°	632.0	9.4
0°-180°	6746.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2168	2168	2168	2168	2168	
5°	2171	2154	2116	2116	2103	206
15°	2062	2007	1915	1881	1864	581
25°	1854	1772	1680	1666	1659	854
35°	1570	1488	1434	1447	1451	981
45°	1232	1185	1185	1232	1253	951
55°	888	884	949	1062	1103	792
65°	563	611	775	912	959	558
75°	273	399	621	765	816	292
85°	58	249	474	625	672	67
90°	0	181	403	550	597	3
95°	0	116	331	478	526	0
105°	0	27	188	318	362	0
115°	0	0	75	174	212	0
125°	0	0	3	58	85	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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2167.7	2167.7	2167.7	2167.7	2167.7
2.5°	2181.4	2171.2	2143.9	2154.1	2143.9
5°	2171.2	2154.1	2116.5	2116.5	2102.9
7.5°	2150.7	2130.2	2079.0	2061.9	2044.9
10°	2130.2	2099.5	2024.4	2003.9	1983.4
12.5°	2099.5	2055.1	1969.8	1939.0	1918.5
15°	2061.9	2007.3	1915.1	1881.0	1863.9
17.5°	2017.5	1956.1	1853.7	1826.4	1812.7
20°	1969.8	1898.1	1795.6	1771.8	1758.1
22.5°	1915.1	1833.2	1737.6	1720.5	1710.3
25°	1853.7	1771.8	1679.6	1665.9	1659.1
27.5°	1792.2	1703.5	1618.1	1611.3	1607.9
30°	1720.5	1635.2	1553.3	1556.7	1556.7
32.5°	1648.9	1563.5	1498.6	1505.5	1505.5
35°	1570.3	1488.4	1433.8	1447.4	1450.9
37.5°	1488.4	1416.7	1372.3	1392.8	1403.1
40°	1406.5	1341.6	1307.5	1338.2	1348.4
42.5°	1324.5	1263.1	1249.4	1287.0	1300.6
45°	1232.4	1184.6	1184.6	1232.4	1252.9
47.5°	1143.6	1112.9	1123.1	1184.6	1215.3
50°	1058.3	1034.4	1061.7	1140.2	1174.3
52.5°	966.1	959.3	1003.7	1099.2	1140.2
55°	887.6	884.2	949.0	1061.7	1102.7
57.5°	802.2	812.5	901.2	1024.1	1068.5
60°	720.3	740.8	856.9	986.6	1027.5
62.5°	638.4	679.3	815.9	949.0	996.8
65°	563.3	611.1	774.9	911.5	959.3
67.5°	488.2	549.6	734.0	877.3	925.1
70°	413.1	495.0	696.4	839.8	887.6
72.5°	338.0	447.2	658.9	802.2	853.4
75°	273.1	399.4	621.3	764.7	815.9
77.5°	211.7	361.9	583.8	734.0	778.3
80°	153.6	320.9	549.6	696.4	744.2
82.5°	99.0	286.8	512.1	658.9	710.1
85°	58.0	249.2	474.5	624.7	672.5
87.5°	23.9	211.7	440.4	587.2	635.0
90°	0.0	180.9	402.8	549.6	597.4
92.5°	0.0	150.2	368.7	515.5	563.3
95°	0.0	116.1	331.1	477.9	525.7
97.5°	0.0	88.8	293.6	440.4	488.2
100°	0.0	68.3	256.0	396.0	447.2
102.5°	0.0	47.8	218.5	355.0	406.2
105°	0.0	27.3	187.8	317.5	361.9
107.5°	0.0	13.7	157.0	279.9	324.3
110°	0.0	3.4	126.3	242.4	283.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	99.0	208.2	249.2
115°	0.0	0.0	75.1	174.1	211.7
117.5°	0.0	0.0	51.2	143.4	177.5
120°	0.0	0.0	30.7	112.7	143.4
122.5°	0.0	0.0	13.7	85.3	112.7
125°	0.0	0.0	3.4	58.0	85.3
127.5°	0.0	0.0	0.0	34.1	58.0
130°	0.0	0.0	0.0	17.1	34.1
132.5°	0.0	0.0	0.0	3.4	13.7
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°	3.4	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)