

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: P289784

Luminaire Tested: **8SSRK-TS-50-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289784
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-50-L830-CD1-U
Description: 5000 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: 4574.5 lumens
Efficiency: N/A
Efficacy: 133.8 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

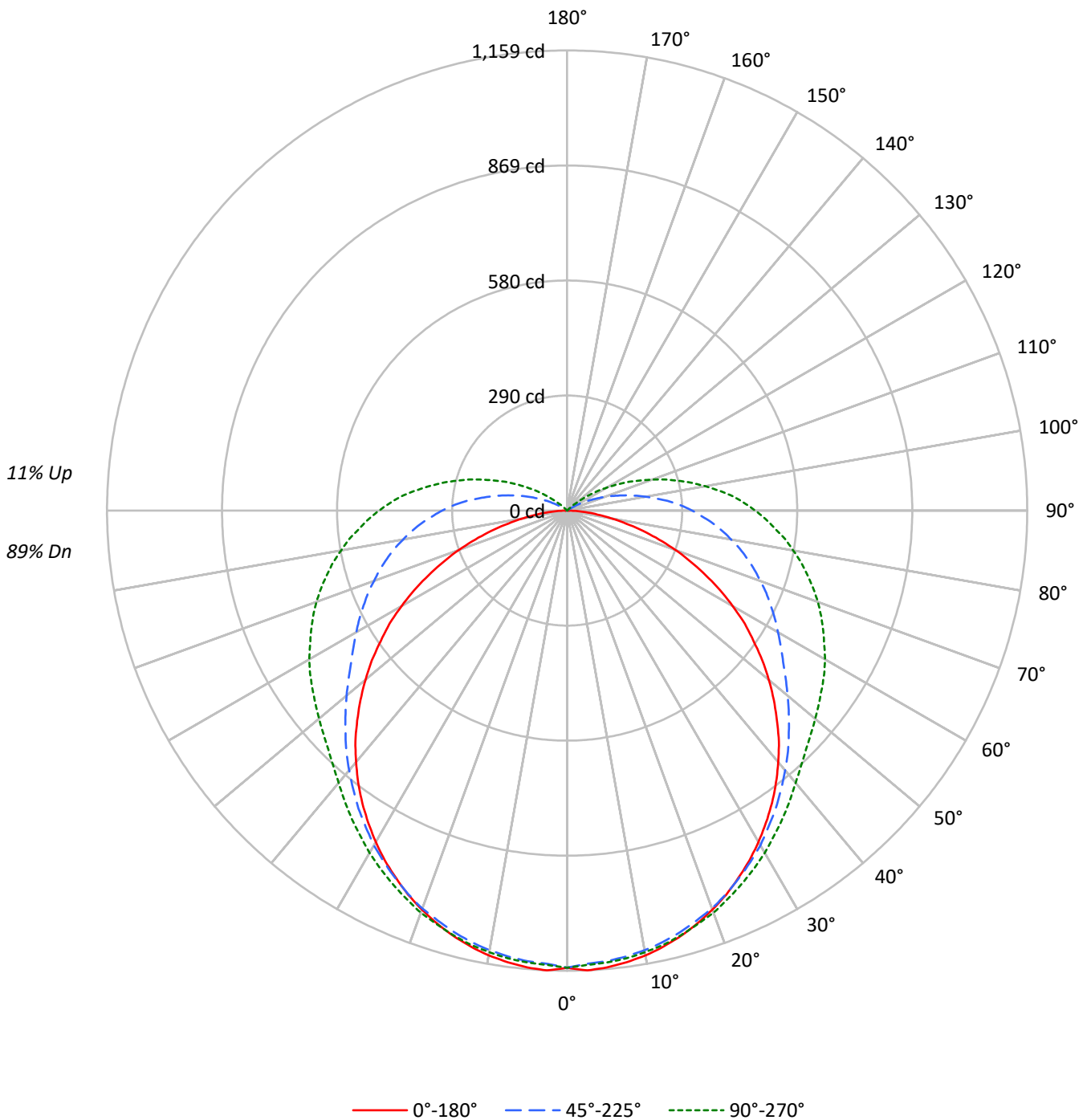
Input Watts (W): 34.1991
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	37180	37180	37180
5°	37371	29579	27434
10°	37168	24560	21714
15°	36869	20863	17866
20°	36479	18013	15084
25°	36014	15663	12914
30°	35514	13742	11216
35°	34945	12075	9818
40°	34266	10633	8662
45°	33448	9381	7773
50°	32495	8300	7106
55°	31343	7388	6566
60°	30039	6686	6110
65°	28174	6089	5674
70°	25969	5548	5291
75°	22887	5050	4907
80°	18976	4559	4539
85°	13945	4076	4172



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.9	2.4
10°-20°	312.1	6.8
20°-30°	473.9	10.4
30°-40°	576.1	12.6
40°-50°	614.8	13.4
50°-60°	603.0	13.2
60°-70°	550.9	12.0
70°-80°	467.6	10.2
80°-90°	363.8	8.0
90°-100°	256.5	5.6
100°-110°	152.5	3.3
110°-120°	72.2	1.6
120°-130°	20.9	0.5
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°	895.0	19.6
0°-40°	1471.1	32.2
0°-60°	2688.9	58.8
0°-90°	4071.2	89.0
90°-120°	481.2	10.5
90°-150°	503.3	11.0
90°-180°	503.0	11.0
0°-180°	4574.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1151	1151	1151	1151	1151	
5°	1155	1151	1140	1146	1142	110
15°	1109	1107	1100	1109	1107	313
25°	1021	1021	1022	1038	1038	470
35°	899	904	916	939	947	562
45°	748	760	790	831	851	577
55°	573	598	664	751	783	513
65°	385	435	566	674	711	382
75°	198	300	470	586	626	210
85°	47	191	368	486	526	52
90°	4	142	315	433	474	4
95°	4	95	260	375	419	3
105°	3	26	148	251	290	3
115°	2	2	60	138	171	2
125°	2	1	3	46	68	2
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°	1151.4	1151.4	1151.4	1151.4	1151.4
2.5°	1159.2	1155.0	1142.5	1149.0	1145.4
5°	1155.0	1150.8	1139.5	1146.0	1142.5
7.5°	1147.2	1144.3	1132.9	1140.1	1137.7
10°	1137.7	1134.7	1124.5	1132.9	1129.3
12.5°	1124.5	1121.6	1113.2	1121.6	1120.4
15°	1109.0	1106.6	1099.5	1109.0	1107.2
17.5°	1090.5	1088.7	1082.7	1094.7	1092.3
20°	1069.6	1068.4	1066.6	1077.4	1078.0
22.5°	1046.9	1046.9	1045.7	1057.7	1058.3
25°	1020.6	1021.2	1022.4	1038.5	1038.5
27.5°	993.8	995.5	998.5	1014.1	1017.6
30°	963.9	966.9	973.5	990.2	995.5
32.5°	932.2	937.0	944.2	965.1	970.5
35°	899.4	904.2	916.1	938.8	946.6
37.5°	864.2	869.5	885.1	910.7	920.9
40°	827.1	833.1	854.0	886.3	895.2
42.5°	789.5	797.9	823.6	858.2	871.9
45°	747.7	760.2	789.5	831.3	851.0
47.5°	705.9	720.8	757.3	808.6	832.5
50°	662.9	679.6	725.0	788.3	815.8
52.5°	619.9	638.4	693.4	769.2	799.1
55°	573.3	597.8	664.1	750.7	782.9
57.5°	530.3	556.6	637.8	732.2	767.4
60°	481.9	515.4	613.3	713.1	750.1
62.5°	434.2	474.2	590.0	693.4	729.8
65°	385.2	434.8	565.6	673.7	711.3
67.5°	336.8	394.8	542.9	653.3	692.2
70°	290.8	360.1	517.8	632.4	671.9
72.5°	242.5	329.7	494.5	610.3	649.8
75°	197.7	299.8	470.0	586.5	626.5
77.5°	152.3	271.7	446.1	562.6	603.8
80°	114.1	245.5	419.8	537.5	578.1
82.5°	77.6	219.2	394.2	511.8	554.2
85°	46.6	191.1	368.5	485.5	526.1
87.5°	20.9	166.6	340.4	458.7	501.1
90°	3.6	141.5	314.7	433.0	473.6
92.5°	4.2	118.8	288.5	405.5	446.1
95°	3.6	95.0	259.8	375.0	418.6
97.5°	3.6	74.7	229.3	345.2	385.2
100°	3.0	55.5	200.1	313.5	353.0
102.5°	3.0	39.4	173.8	282.5	321.9
105°	3.0	25.7	148.1	251.4	289.6
107.5°	3.0	14.3	123.0	221.6	260.4
110°	3.0	5.4	100.3	194.7	226.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.4	2.4	78.2	164.8	198.3
115°	2.4	2.4	60.3	138.0	170.8
117.5°	2.4	1.8	41.2	112.9	142.7
120°	2.4	1.8	25.7	90.2	115.9
122.5°	1.8	1.2	12.5	66.9	92.6
125°	1.8	1.2	3.0	46.0	67.5
127.5°	1.8	0.6	0.0	27.5	46.6
130°	1.2	0.6	0.0	13.1	27.5
132.5°	1.2	0.6	0.0	2.4	11.9
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)