

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: P289774

Luminaire Tested: **8SSRK-TS-40-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289774
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-40-L940-CD1-U
Description: 4000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3180.2 lumens
Efficiency: N/A
Efficacy: 117.7 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

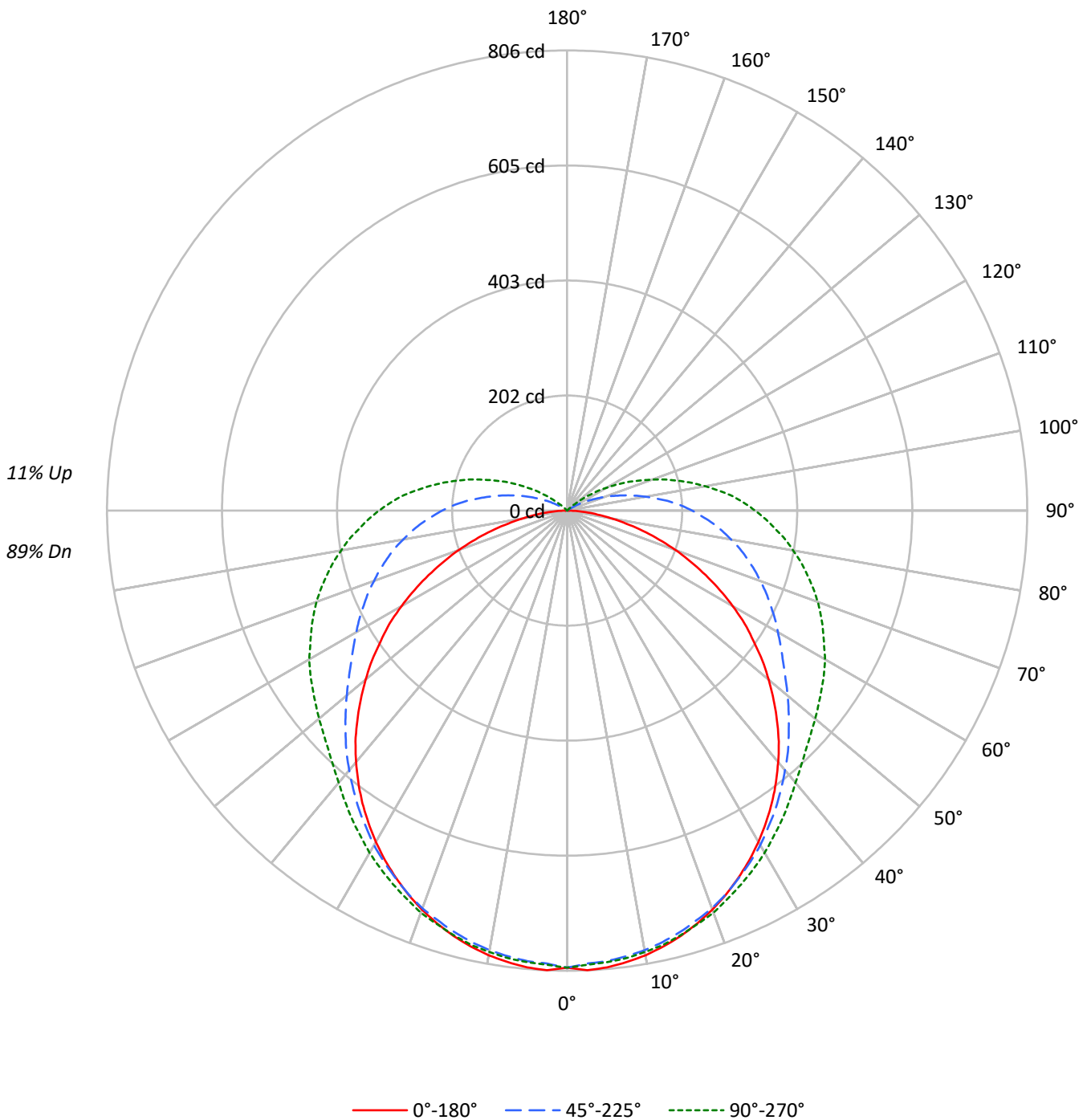
Input Watts (W): 27.0151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	25849	25849	25849
5°	25982	20564	19070
10°	25838	17075	15096
15°	25632	14503	12420
20°	25361	12522	10486
25°	25036	10889	8978
30°	24689	9552	7798
35°	24295	8395	6826
40°	23822	7392	6023
45°	23253	6522	5403
50°	22588	5770	4940
55°	21792	5137	4565
60°	20882	4648	4248
65°	19587	4233	3945
70°	18057	3857	3678
75°	15906	3511	3411
80°	13188	3170	3155
85°	9696	2834	2901



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.7	2.4
10°-20°	217.0	6.8
20°-30°	329.5	10.4
30°-40°	400.5	12.6
40°-50°	427.4	13.4
50°-60°	419.2	13.2
60°-70°	383.0	12.0
70°-80°	325.0	10.2
80°-90°	252.9	8.0
90°-100°	178.3	5.6
100°-110°	106.0	3.3
110°-120°	50.2	1.6
120°-130°	14.5	0.5
130°-140°	0.8	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°	622.2	19.6
0°-40°	1022.7	32.2
0°-60°	1869.3	58.8
0°-90°	2830.3	89.0
90°-120°	334.5	10.5
90°-150°	349.9	11.0
90°-180°	350.0	11.0
0°-180°	3180.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	800	800	800	800	800	
5°	803	800	792	797	794	76
15°	771	769	764	771	770	217
25°	710	710	711	722	722	327
35°	625	629	637	653	658	391
45°	520	528	549	578	592	401
55°	399	416	462	522	544	357
65°	268	302	393	468	494	265
75°	137	208	327	408	436	146
85°	32	133	256	338	366	36
90°	2	98	219	301	329	3
95°	2	66	181	261	291	2
105°	2	18	103	175	201	2
115°	2	2	42	96	119	2
125°	1	1	2	32	47	1
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°	800.5	800.5	800.5	800.5	800.5
2.5°	805.9	803.0	794.2	798.8	796.3
5°	803.0	800.1	792.2	796.7	794.2
7.5°	797.6	795.5	787.6	792.6	790.9
10°	790.9	788.8	781.8	787.6	785.1
12.5°	781.8	779.7	773.9	779.7	778.9
15°	771.0	769.3	764.3	771.0	769.7
17.5°	758.1	756.9	752.7	761.0	759.4
20°	743.6	742.8	741.5	749.0	749.4
22.5°	727.8	727.8	727.0	735.3	735.7
25°	709.5	710.0	710.8	722.0	722.0
27.5°	690.9	692.1	694.2	705.0	707.5
30°	670.1	672.2	676.7	688.4	692.1
32.5°	648.1	651.4	656.4	670.9	674.7
35°	625.3	628.6	636.9	652.7	658.1
37.5°	600.8	604.5	615.3	633.1	640.2
40°	575.0	579.2	593.7	616.1	622.4
42.5°	548.9	554.7	572.5	596.6	606.2
45°	519.8	528.5	548.9	577.9	591.6
47.5°	490.7	501.1	526.4	562.2	578.8
50°	460.8	472.5	504.0	548.0	567.1
52.5°	431.0	443.8	482.0	534.8	555.5
55°	398.6	415.6	461.7	521.9	544.3
57.5°	368.7	386.9	443.4	509.0	533.5
60°	335.0	358.3	426.4	495.7	521.5
62.5°	301.8	329.7	410.2	482.0	507.3
65°	267.8	302.3	393.2	468.3	494.5
67.5°	234.2	274.4	377.4	454.2	481.2
70°	202.2	250.4	360.0	439.7	467.1
72.5°	168.6	229.2	343.8	424.3	451.7
75°	137.4	208.4	326.7	407.7	435.5
77.5°	105.9	188.9	310.1	391.1	419.7
80°	79.3	170.6	291.9	373.7	401.9
82.5°	54.0	152.4	274.0	355.8	385.3
85°	32.4	132.9	256.2	337.5	365.8
87.5°	14.5	115.8	236.7	318.9	348.3
90°	2.5	98.4	218.8	301.0	329.2
92.5°	2.9	82.6	200.5	281.9	310.1
95°	2.5	66.0	180.6	260.7	291.0
97.5°	2.5	51.9	159.4	240.0	267.8
100°	2.1	38.6	139.1	218.0	245.4
102.5°	2.1	27.4	120.8	196.4	223.8
105°	2.1	17.9	103.0	174.8	201.4
107.5°	2.1	10.0	85.5	154.0	181.0
110°	2.1	3.7	69.8	135.3	157.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.7	1.7	54.4	114.6	137.8
115°	1.7	1.7	41.9	95.9	118.7
117.5°	1.7	1.2	28.6	78.5	99.2
120°	1.7	1.2	17.9	62.7	80.5
122.5°	1.2	0.8	8.7	46.5	64.4
125°	1.2	0.8	2.1	32.0	46.9
127.5°	1.2	0.4	0.0	19.1	32.4
130°	0.8	0.4	0.0	9.1	19.1
132.5°	0.8	0.4	0.0	1.7	8.3
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)