

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: P289950

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-LW-40-L940-CD1-U
Description: 4000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3140.8 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

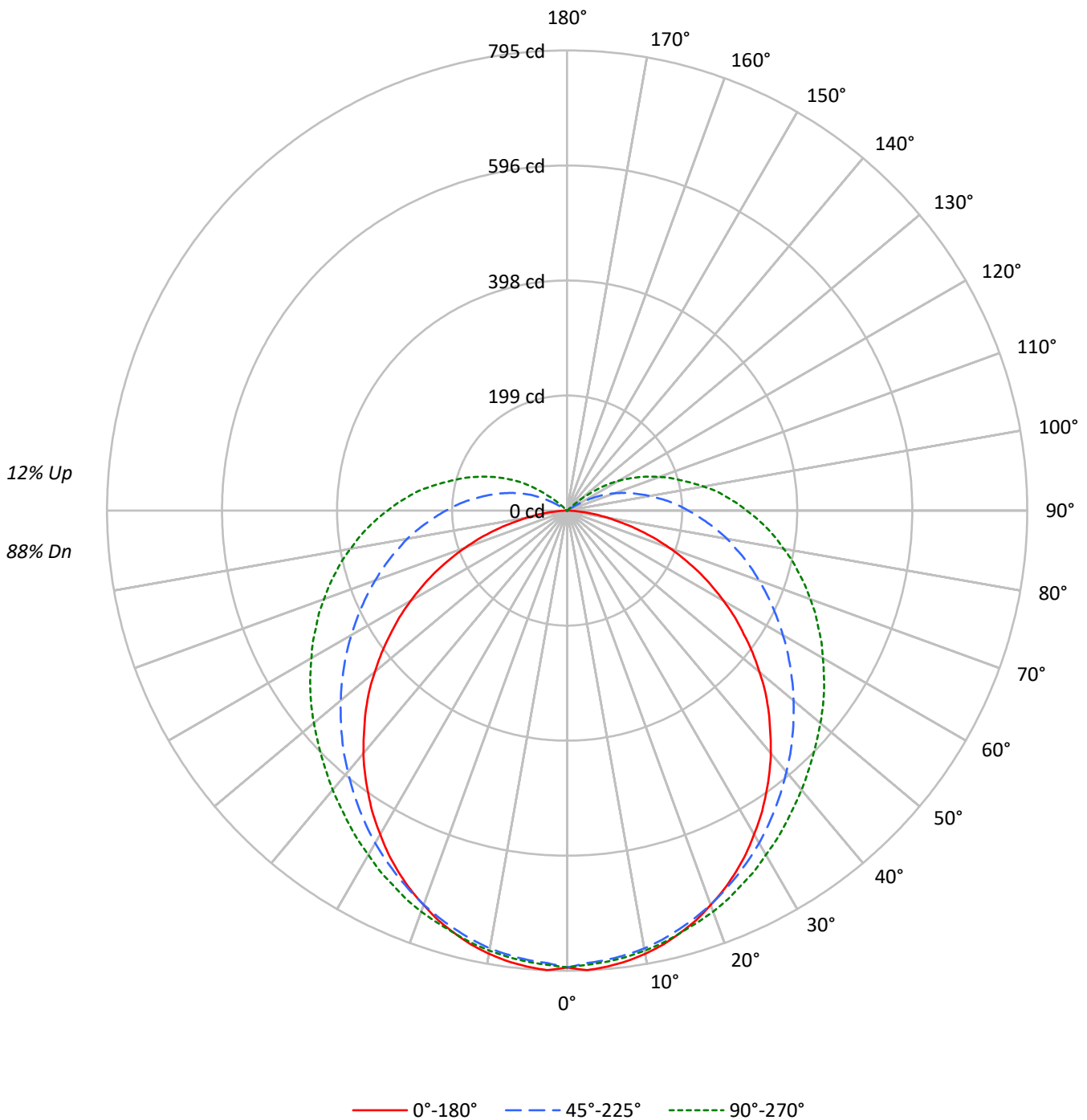
Input Watts (W): 27.0151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	91	91	88
1	103	97	92	87	99	94	89	84	87	83	79	81	78	75	75	73	71	67
2	93	83	75	68	89	80	73	67	74	68	63	69	64	60	65	61	57	54
3	84	72	63	56	80	70	61	54	65	58	52	60	54	50	56	51	47	44
4	76	63	54	47	73	61	52	46	57	50	44	53	47	42	50	44	40	37
5	70	56	47	40	67	54	46	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	40	35	30	28
7	60	46	36	30	57	44	36	30	42	34	28	39	32	27	37	31	26	24
8	55	41	33	27	53	40	32	26	38	31	25	36	29	24	34	28	24	21
9	52	38	30	24	50	37	29	23	35	28	23	33	27	22	31	25	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°	25488	25488	25488
5°	25590	20229	18792
10°	25404	16776	14848
15°	25107	14205	12192
20°	24737	12235	10318
25°	24320	10653	8870
30°	23801	9366	7737
35°	23262	8268	6834
40°	22687	7335	6098
45°	22028	6541	5484
50°	21270	5846	4977
55°	20382	5233	4544
60°	19486	4693	4157
65°	18344	4211	3819
70°	16762	3781	3521
75°	14656	3396	3242
80°	11675	3048	2983
85°	7571	2695	2746



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.5	2.4
10°-20°	212.7	6.8
20°-30°	322.6	10.3
30°-40°	393.7	12.5
40°-50°	424.0	13.5
50°-60°	416.5	13.3
60°-70°	376.3	12.0
70°-80°	313.3	10.0
80°-90°	240.3	7.7
90°-100°	174.0	5.5
100°-110°	112.4	3.6
110°-120°	60.6	1.9
120°-130°	19.2	0.6
130°-140°	0.7	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°	609.9	19.4
0°-40°	1003.6	32.0
0°-60°	1844.1	58.7
0°-90°	2774.0	88.3
90°-120°	346.9	11.0
90°-150°	366.8	11.7
90°-180°	367.0	11.7
0°-180°	3140.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	789	789	789	789	789	
5°	791	788	779	785	783	75
15°	755	754	749	757	756	213
25°	689	690	695	710	713	317
35°	599	607	627	652	659	375
45°	492	511	550	587	600	380
55°	373	410	470	523	542	334
65°	251	305	391	457	479	247
75°	127	210	316	389	414	134
85°	25	129	244	320	346	30
90°	1	97	209	284	310	1
95°	2	70	177	251	276	1
105°	2	25	115	181	203	2
115°	1	1	58	115	137	1
125°	1	0	0	46	66	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°	789.3	789.3	789.3	789.3	789.3
2.5°	794.7	791.3	782.6	788.0	785.5
5°	790.9	788.0	779.3	785.1	782.6
7.5°	785.5	782.6	774.3	780.1	778.1
10°	777.6	774.7	768.1	773.9	772.2
12.5°	767.7	765.6	759.4	766.4	764.8
15°	755.2	753.6	748.6	756.9	755.6
17.5°	741.9	740.3	737.4	746.1	746.5
20°	725.3	724.9	724.5	735.7	737.4
22.5°	708.3	708.7	710.4	724.1	726.6
25°	689.2	690.0	695.4	710.4	713.3
27.5°	668.9	671.8	679.7	697.1	701.7
30°	646.0	651.0	663.5	681.7	686.7
32.5°	623.6	629.0	645.6	667.2	673.8
35°	598.7	606.6	627.3	652.3	658.9
37.5°	573.8	582.9	608.7	635.6	643.9
40°	547.6	559.7	589.1	619.5	630.2
42.5°	519.4	536.4	570.5	602.8	614.9
45°	492.4	511.1	550.5	586.7	600.4
47.5°	464.6	487.0	530.6	570.9	585.4
50°	433.9	460.9	510.7	555.1	571.3
52.5°	404.0	435.9	490.7	538.9	556.8
55°	372.8	409.8	470.4	522.7	541.8
57.5°	343.8	383.2	450.9	505.7	526.0
60°	312.6	357.5	430.5	489.9	510.3
62.5°	281.1	331.7	410.6	472.9	495.7
65°	250.8	305.2	391.1	456.7	478.7
67.5°	218.4	281.1	372.0	439.3	464.2
70°	187.7	256.2	352.9	422.7	447.2
72.5°	156.9	232.1	334.2	406.0	431.0
75°	126.6	210.1	316.0	389.0	413.9
77.5°	96.3	186.8	297.3	372.0	398.2
80°	70.2	166.5	280.7	354.6	379.9
82.5°	47.7	147.4	262.0	338.0	363.7
85°	25.3	128.7	243.7	319.7	346.3
87.5°	7.5	112.1	225.9	301.8	328.4
90°	0.8	96.7	209.3	284.4	310.1
92.5°	1.2	83.5	193.5	268.6	293.5
95°	1.7	70.2	177.3	251.2	275.7
97.5°	1.7	58.5	160.7	233.3	259.5
100°	1.7	47.3	144.9	215.1	239.1
102.5°	1.7	37.0	130.0	196.8	220.5
105°	1.7	24.9	115.4	180.6	203.0
107.5°	1.7	12.5	101.3	164.8	186.8
110°	1.7	2.5	87.2	148.6	169.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	1.7	73.5	131.6	153.2
115°	1.2	1.2	58.1	115.0	136.6
117.5°	1.2	1.2	41.5	99.6	119.2
120°	1.2	0.8	24.1	83.5	103.0
122.5°	0.8	0.8	7.9	64.8	85.9
125°	0.8	0.4	0.4	46.1	65.6
127.5°	0.8	0.4	0.0	25.7	44.4
130°	0.8	0.4	0.0	7.5	25.3
132.5°	0.8	0.4	0.0	0.0	5.4
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)