

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: P289953

Luminaire Tested: **8SSRK-LW-40-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289953
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-L835-CD1-U
Description: 4000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 80 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3650.6 lumens
Efficiency: N/A
Efficacy: 135.1 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

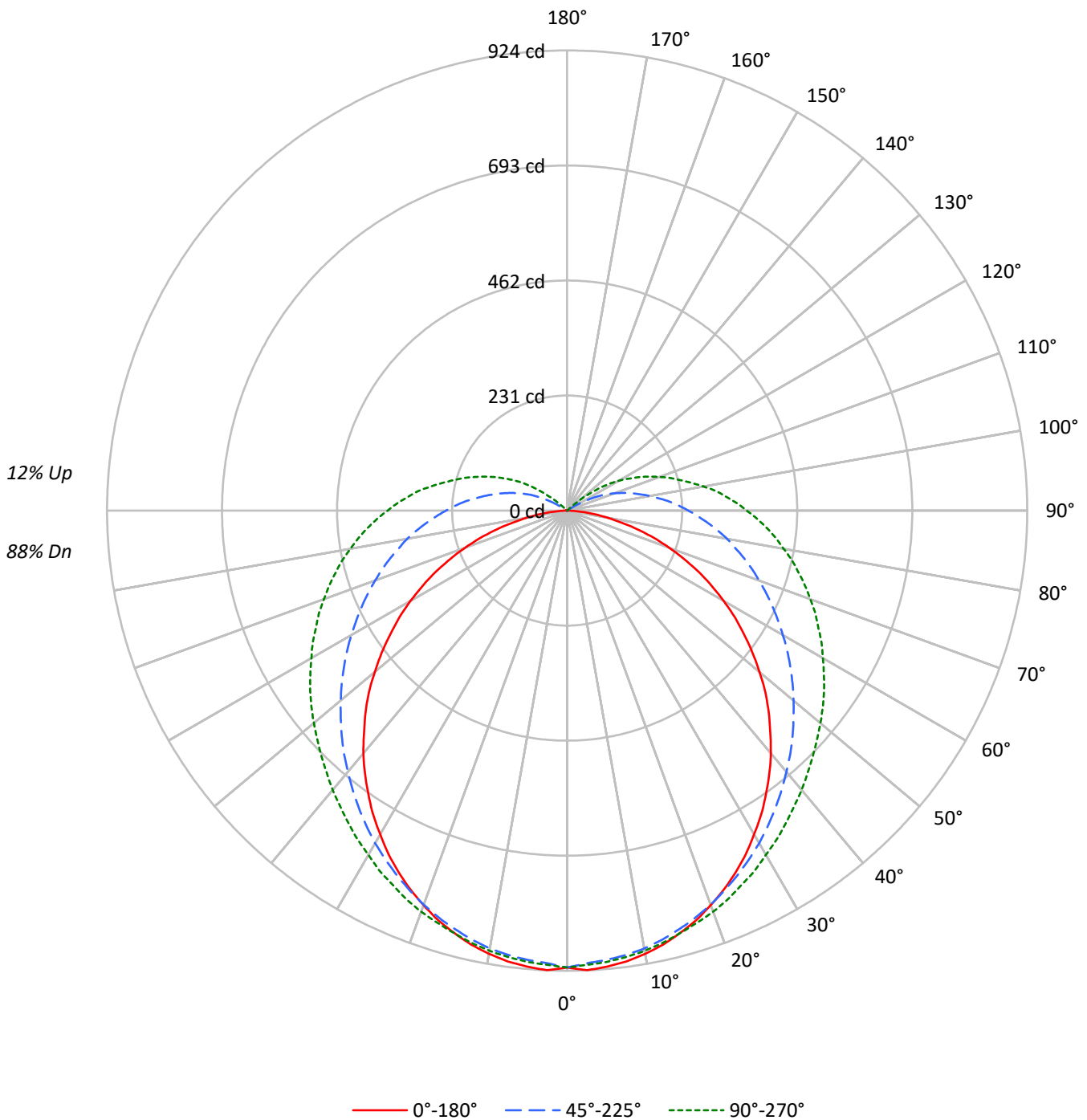
Input Watts (W): 27.0151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	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°	29624	29624	29624
5°	29745	23513	21844
10°	29530	19499	17259
15°	29182	16510	14172
20°	28754	14221	11993
25°	28268	12383	10310
30°	27666	10886	8993
35°	27038	9611	7943
40°	26370	8526	7089
45°	25602	7604	6373
50°	24721	6795	5784
55°	23695	6083	5282
60°	22652	5455	4831
65°	21320	4894	4439
70°	19477	4395	4092
75°	17040	3946	3768
80°	13571	3542	3467
85°	8798	3133	3192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.6	2.4
10°-20°	247.3	6.8
20°-30°	375.0	10.3
30°-40°	457.6	12.5
40°-50°	492.9	13.5
50°-60°	484.1	13.3
60°-70°	437.4	12.0
70°-80°	364.2	10.0
80°-90°	279.3	7.7
90°-100°	202.2	5.5
100°-110°	130.6	3.6
110°-120°	70.4	1.9
120°-130°	22.3	0.6
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°	708.9	19.4
0°-40°	1166.5	32.0
0°-60°	2143.4	58.7
0°-90°	3224.2	88.3
90°-120°	403.2	11.0
90°-150°	426.4	11.7
90°-180°	426.0	11.7
0°-180°	3650.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	917	917	917	917	917	
5°	919	916	906	913	910	87
15°	878	876	870	880	878	248
25°	801	802	808	826	829	369
35°	696	705	729	758	766	435
45°	572	594	640	682	698	441
55°	433	476	547	608	630	388
65°	292	355	455	531	556	288
75°	147	244	367	452	481	156
85°	29	150	283	372	402	35
90°	1	112	243	331	360	2
95°	2	82	206	292	320	1
105°	2	29	134	210	236	2
115°	1	1	68	134	159	1
125°	1	0	0	54	76	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°	917.4	917.4	917.4	917.4	917.4
2.5°	923.7	919.8	909.7	915.9	913.0
5°	919.3	915.9	905.8	912.6	909.7
7.5°	913.0	909.7	900.0	906.8	904.3
10°	903.9	900.5	892.8	899.5	897.6
12.5°	892.3	889.9	882.6	890.8	888.9
15°	877.8	875.9	870.1	879.7	878.3
17.5°	862.4	860.4	857.1	867.2	867.7
20°	843.1	842.6	842.1	855.1	857.1
22.5°	823.3	823.8	825.7	841.6	844.5
25°	801.1	802.0	808.3	825.7	829.1
27.5°	777.4	780.8	790.0	810.2	815.6
30°	750.9	756.7	771.2	792.4	798.2
32.5°	724.8	731.1	750.4	775.5	783.2
35°	695.9	705.0	729.2	758.1	765.8
37.5°	666.9	677.5	707.5	738.8	748.5
40°	636.5	650.5	684.8	720.0	732.6
42.5°	603.7	623.5	663.1	700.7	714.7
45°	572.3	594.1	639.9	681.9	697.8
47.5°	540.0	566.1	616.7	663.5	680.4
50°	504.3	535.7	593.6	645.2	664.0
52.5°	469.5	506.7	570.4	626.4	647.1
55°	433.4	476.3	546.8	607.6	629.8
57.5°	399.6	445.4	524.1	587.8	611.4
60°	363.4	415.5	500.4	569.4	593.1
62.5°	326.7	385.6	477.3	549.7	576.2
65°	291.5	354.7	454.6	530.8	556.4
67.5°	253.8	326.7	432.4	510.6	539.5
70°	218.1	297.8	410.2	491.3	519.7
72.5°	182.4	269.8	388.5	472.0	500.9
75°	147.2	244.2	367.2	452.2	481.1
77.5°	112.0	217.2	345.5	432.4	462.8
80°	81.6	193.5	326.2	412.1	441.6
82.5°	55.5	171.3	304.5	392.8	422.7
85°	29.4	149.6	283.3	371.6	402.5
87.5°	8.7	130.3	262.5	350.8	381.7
90°	1.0	112.4	243.2	330.6	360.5
92.5°	1.4	97.0	224.9	312.2	341.2
95°	1.9	81.6	206.1	292.0	320.4
97.5°	1.9	68.0	186.8	271.2	301.6
100°	1.9	55.0	168.4	250.0	278.0
102.5°	1.9	42.9	151.0	228.7	256.2
105°	1.9	29.0	134.2	209.9	236.0
107.5°	1.9	14.5	117.7	191.6	217.2
110°	1.9	2.9	101.3	172.8	197.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	1.9	85.4	153.0	178.1
115°	1.4	1.4	67.6	133.7	158.8
117.5°	1.4	1.4	48.3	115.8	138.5
120°	1.4	1.0	28.0	97.0	119.7
122.5°	1.0	1.0	9.2	75.3	99.9
125°	1.0	0.5	0.5	53.6	76.2
127.5°	1.0	0.5	0.0	29.9	51.6
130°	1.0	0.5	0.0	8.7	29.4
132.5°	1.0	0.5	0.0	0.0	6.3
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)