

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: P290451

Luminaire Tested: **4SSRK-SLW-30-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-17)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SSRK-SLW-30-L850-CD1-U
Description: 3000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE FROSTED LENS AND 80 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2983.0 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.23 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

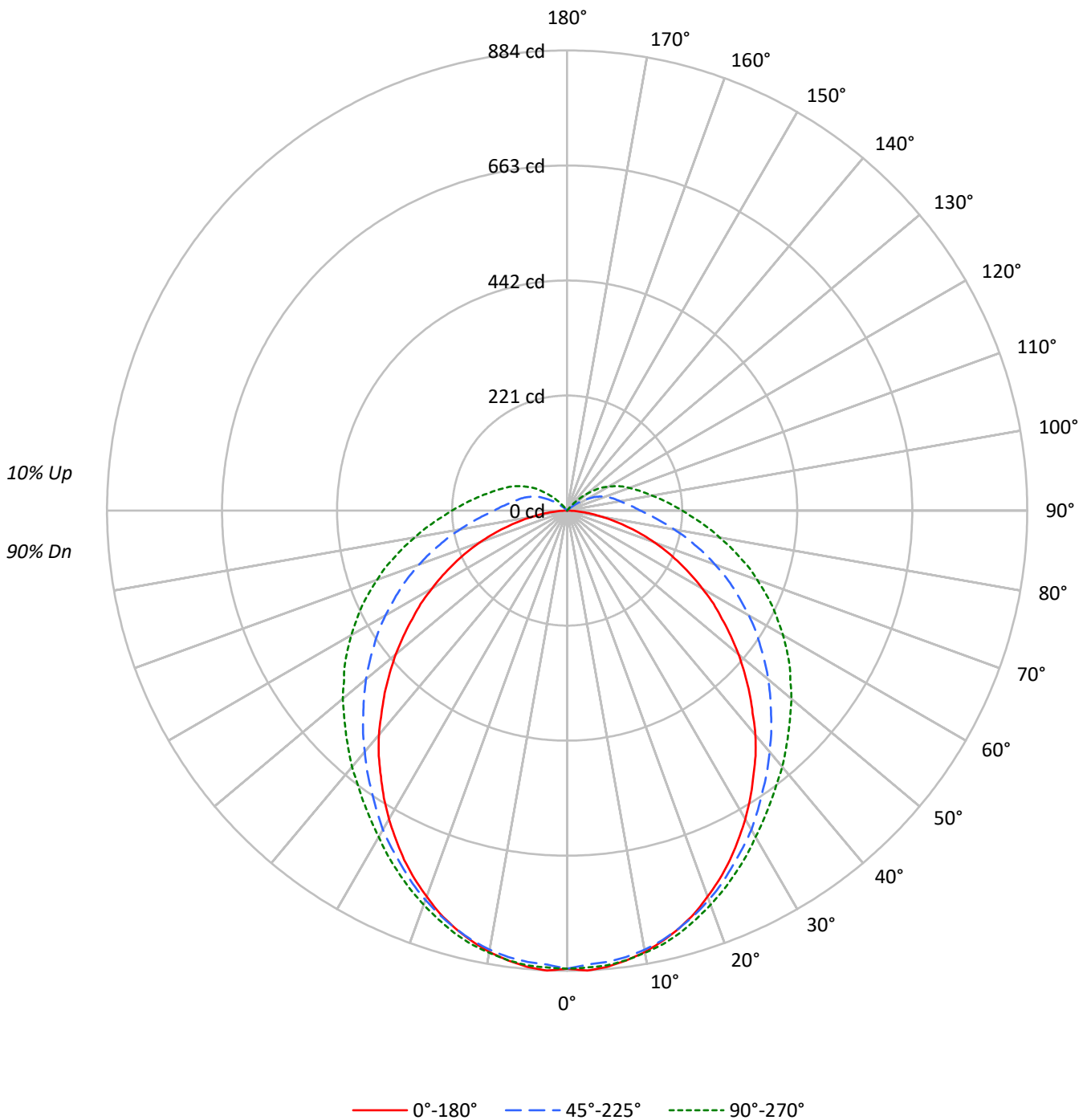
Input Watts (W): 20.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	90					90			
1	104	99	94	89	101	96	91	87	89	86	82	84	81	78	79	76	74	71					71			
2	94	85	78	71	91	82	76	70	77	72	67	72	68	64	68	64	61	58					58			
3	86	74	66	59	82	72	64	58	68	61	55	63	58	53	60	55	51	48					48			
4	78	66	56	49	75	64	55	49	60	53	47	56	50	45	53	48	43	41					41			
5	72	59	49	42	69	57	48	42	54	46	40	50	44	39	48	42	38	35					35			
6	66	53	43	37	64	51	43	36	48	41	35	46	39	34	43	37	33	31					31			
7	61	48	39	32	59	46	38	32	44	36	31	42	35	30	39	34	29	27					27			
8	57	43	35	29	55	42	34	28	40	33	28	38	32	27	36	30	26	24					24			
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22					22			
10	50	37	29	23	48	36	28	23	34	27	23	33	26	22	31	26	21	20					20			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	56839	56839	56839
5°	56849	45141	42122
10°	56058	37357	33172
15°	54928	31455	27096
20°	53423	26818	22550
25°	51755	22994	19081
30°	49832	19927	16317
35°	47787	17226	14155
40°	45845	15005	12438
45°	43455	13113	10988
50°	41141	11505	9805
55°	38609	10036	8761
60°	36166	8751	7802
65°	33401	7559	6947
70°	30091	6442	6114
75°	25763	5420	5361
80°	20216	4513	4673
85°	13252	3762	4071



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	2.8
10°-20°	235.2	7.9
20°-30°	348.0	11.7
30°-40°	411.0	13.8
40°-50°	427.2	14.3
50°-60°	402.8	13.5
60°-70°	343.3	11.5
70°-80°	259.7	8.7
80°-90°	175.2	5.9
90°-100°	120.3	4.0
100°-110°	86.3	2.9
110°-120°	55.3	1.9
120°-130°	28.2	0.9
130°-140°	7.2	0.2
140°-150°	0.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	666.4	22.3
0°-40°	1077.4	36.1
0°-60°	1907.4	63.9
0°-90°	2685.6	90.0
90°-120°	261.9	8.8
90°-150°	297.4	10.0
90°-180°	297.0	10.0
0°-180°	2983.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	880	880	880	880	880	
5°	880	878	870	879	877	83
15°	831	833	831	839	840	234
25°	740	749	753	766	767	341
35°	624	639	656	675	682	391
45°	496	520	554	588	602	382
55°	363	401	453	502	522	326
65°	238	286	353	411	435	236
75°	119	177	253	318	342	127
85°	26	89	171	234	257	30
90°	0	63	140	200	221	2
95°	0	50	120	172	192	0
105°	1	32	91	130	145	1
115°	1	4	63	98	111	1
125°	1	1	26	61	74	1
135°	1	0	0	19	29	1
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°	880.1	880.1	880.1	880.1	880.1
2.5°	884.5	881.6	873.0	880.5	878.6
5°	880.1	877.9	870.4	878.6	877.1
7.5°	871.5	871.2	865.2	873.8	871.2
10°	861.1	861.5	856.7	865.2	862.6
12.5°	847.0	848.5	845.2	853.3	853.0
15°	830.7	833.3	830.7	838.9	839.6
17.5°	812.1	816.2	814.3	824.4	823.2
20°	789.1	794.6	796.1	806.2	805.8
22.5°	766.0	773.1	775.7	786.1	787.6
25°	740.4	748.9	752.7	765.7	767.2
27.5°	712.5	723.7	730.4	743.4	746.7
30°	684.3	696.2	708.1	721.1	724.1
32.5°	655.0	668.0	681.7	699.5	702.9
35°	623.8	638.6	655.7	675.4	682.4
37.5°	594.4	611.1	631.2	654.2	661.6
40°	562.8	579.9	604.8	630.8	642.7
42.5°	527.5	550.6	580.3	611.5	621.9
45°	495.6	520.1	553.9	588.1	601.5
47.5°	462.1	490.8	529.0	566.9	581.4
50°	429.8	461.0	504.5	545.4	562.8
52.5°	396.4	431.7	478.9	524.2	540.5
55°	363.3	400.9	452.9	501.5	522.3
57.5°	333.6	371.9	429.5	479.2	500.4
60°	300.2	344.4	403.1	456.6	478.9
62.5°	269.3	314.3	377.1	433.9	456.2
65°	238.1	286.4	352.6	410.9	435.4
67.5°	208.8	257.5	327.7	388.2	411.6
70°	177.6	230.3	302.0	364.4	388.2
72.5°	149.0	203.2	278.3	341.4	367.0
75°	119.3	177.2	253.4	318.0	342.2
77.5°	92.9	151.9	231.1	296.1	320.2
80°	67.2	128.9	208.8	274.2	297.6
82.5°	45.7	107.7	189.1	254.1	277.1
85°	26.4	88.8	170.9	234.0	256.7
87.5°	10.0	73.9	154.5	216.6	237.4
90°	0.4	62.8	140.4	200.2	221.4
92.5°	0.4	55.0	129.7	185.4	205.1
95°	0.4	49.8	119.6	172.4	191.7
97.5°	0.7	45.7	110.7	160.9	177.9
100°	0.7	41.6	103.3	149.7	166.1
102.5°	0.7	37.5	96.6	139.7	154.9
105°	0.7	31.9	90.6	130.4	145.3
107.5°	0.7	24.9	84.0	122.6	135.6
110°	0.7	18.2	76.9	114.8	127.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	11.1	70.6	107.0	119.3
115°	0.7	4.1	62.8	98.4	110.7
117.5°	0.7	1.5	53.5	90.3	101.0
120°	0.7	1.1	44.6	81.4	92.1
122.5°	0.7	1.1	35.3	71.7	83.2
125°	0.7	1.1	26.4	61.3	73.6
127.5°	0.7	0.7	17.1	50.5	61.7
130°	0.7	0.7	8.2	40.1	50.9
132.5°	0.7	0.7	0.4	29.3	39.8
135°	0.7	0.4	0.4	19.3	28.6
137.5°	0.7	0.4	0.0	9.3	18.6
140°	0.7	0.4	0.0	0.0	7.4
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)