

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: P290010

Luminaire Tested: **4SSRK-RB-30-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290010
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SSRK-RB-30-L840-CD1-U
Description: 3000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND BATWING LENS AND 80 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3063.8 lumens
Efficiency: N/A
Efficacy: 150.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.65 / 1.6
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

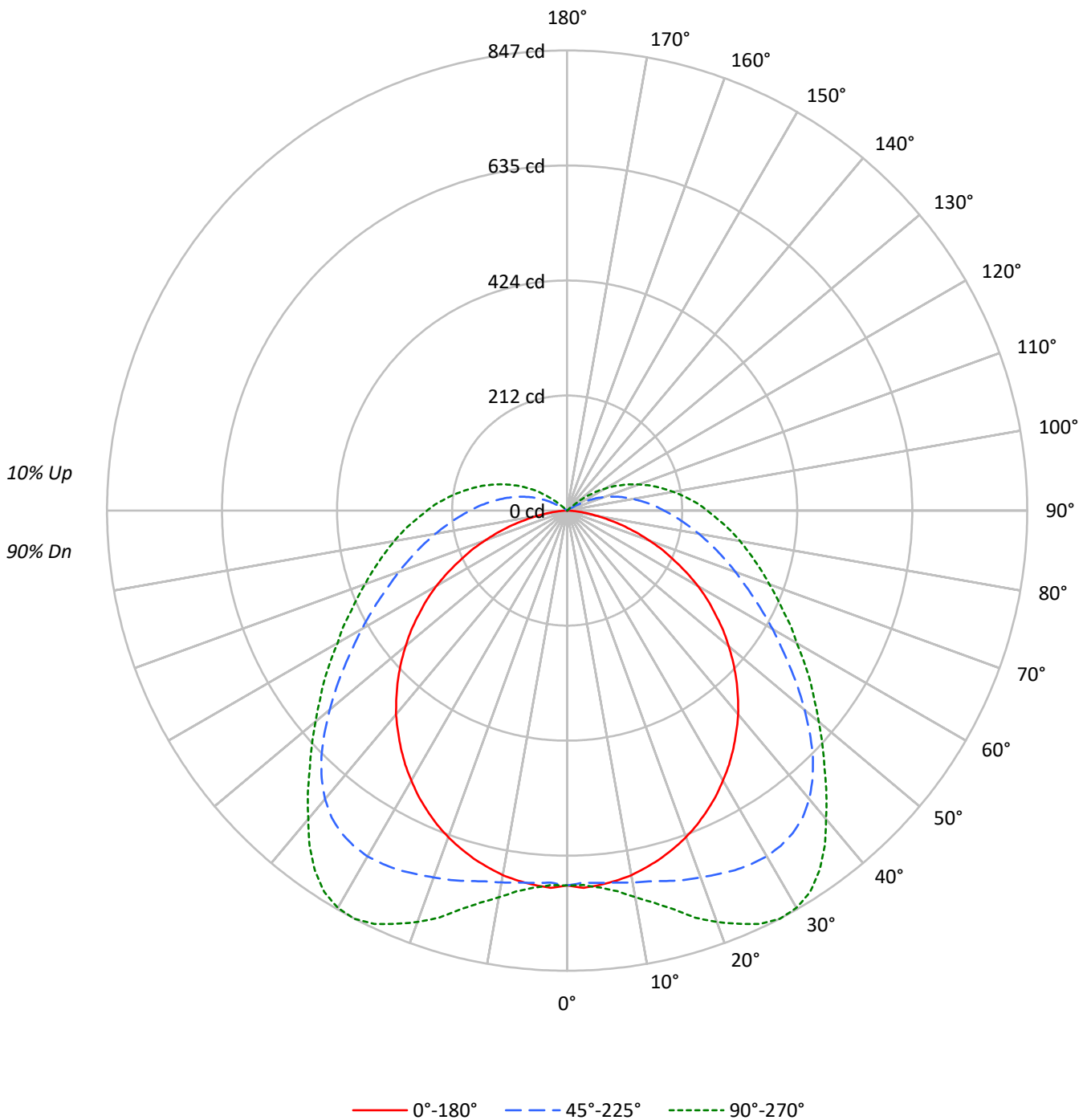
Input Watts (W): 20.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290010

CATALOG NUMBER: 4SSRK-RB-30-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P290010

CATALOG NUMBER: 4SSRK-RB-30-L840-CD1-U

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	117	117	117	117	113	113	113	113	106	106	106		99	99	99		93	93	93	90
1	104	98	93	88	100	95	90	86	89	85	81		83	80	77		78	75	73	70
2	94	84	77	70	90	82	74	68	76	70	65		71	67	62		67	63	59	57
3	85	73	64	57	81	71	63	56	66	60	54		62	56	52		58	54	49	47
4	77	64	55	48	74	62	54	47	59	51	45		55	49	44		52	46	42	39
5	71	57	48	41	68	56	47	40	52	45	39		49	43	37		46	41	36	34
6	65	51	42	35	63	50	41	35	47	39	34		44	38	32		42	36	31	29
7	60	46	37	31	58	45	36	30	43	35	29		40	34	29		38	32	28	25
8	56	42	33	27	54	41	33	27	39	31	26		37	30	25		35	29	25	22
9	52	38	30	24	50	37	29	24	36	28	23		34	27	23		32	26	22	20
10	49	35	27	22	47	34	27	22	33	26	21		31	25	20		30	24	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	44556	44556	44556
5°	44686	35666	33453
10°	44360	30310	27788
15°	43853	26729	24517
20°	43308	24204	22550
25°	42591	22313	20881
30°	41771	20681	19030
35°	40869	19033	16785
40°	39915	17199	14350
45°	38632	15145	12235
50°	37130	13012	10532
55°	35453	11088	9155
60°	33527	9485	7947
65°	30539	8122	7006
70°	27312	7029	6237
75°	22696	6111	5605
80°	16546	5323	5075
85°	8383	4629	4590



TEST NUMBER: P290010

CATALOG NUMBER: 4SSRK-RB-30-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.3	2.2
10°-20°	201.8	6.6
20°-30°	336.0	11.0
30°-40°	434.5	14.2
40°-50°	458.9	15.0
50°-60°	423.2	13.8
60°-70°	355.6	11.6
70°-80°	278.6	9.1
80°-90°	205.0	6.7
90°-100°	146.1	4.8
100°-110°	93.8	3.1
110°-120°	49.2	1.6
120°-130°	14.3	0.5
130°-140°	0.3	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°	604.2	19.7
0°-40°	1038.7	33.9
0°-60°	1920.8	62.7
0°-90°	2760.0	90.1
90°-120°	289.1	9.4
90°-150°	303.8	9.9
90°-180°	304.0	9.9
0°-180°	3063.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	690	690	690	690	690	
5°	692	691	688	697	697	66
15°	663	676	706	748	760	187
25°	609	644	730	814	840	281
35°	534	593	724	798	809	334
45°	441	519	640	667	670	340
55°	334	415	500	535	546	299
65°	218	298	379	425	439	217
75°	105	194	286	340	358	112
85°	17	113	210	270	289	22
90°	0	83	178	239	258	1
95°	1	60	150	210	228	1
105°	1	20	98	152	170	1
115°	1	1	47	94	111	1
125°	1	0	0	34	50	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



TEST NUMBER: P290010

CATALOG NUMBER: 4SSRK-RB-30-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	689.9	689.9	689.9	689.9	689.9
2.5°	695.1	692.1	685.4	691.4	689.9
5°	691.8	691.4	687.7	696.6	696.6
7.5°	687.3	688.8	690.6	705.5	706.6
10°	681.4	685.8	695.1	717.8	722.6
12.5°	672.8	681.0	698.8	731.5	739.3
15°	663.2	676.2	705.9	747.9	759.7
17.5°	652.0	669.1	712.9	767.9	785.8
20°	639.7	662.0	718.5	786.1	805.8
22.5°	625.6	653.5	724.5	801.0	823.3
25°	609.3	643.5	730.4	814.0	839.6
27.5°	592.9	633.1	733.7	822.2	847.1
30°	573.6	621.5	734.9	823.3	844.5
32.5°	554.7	608.9	731.5	815.5	832.2
35°	533.5	592.9	724.5	798.4	809.2
37.5°	511.6	575.8	712.2	772.0	778.7
40°	490.0	559.9	693.2	738.6	741.5
42.5°	465.1	539.4	668.7	703.3	706.3
45°	440.6	519.0	639.7	667.2	669.8
47.5°	414.6	495.6	605.6	631.2	637.5
50°	387.9	470.0	570.6	597.8	604.5
52.5°	361.9	443.6	535.4	566.2	574.0
55°	333.6	414.6	500.4	534.6	545.8
57.5°	306.5	386.0	466.6	504.5	516.8
60°	278.3	356.7	436.9	476.7	487.8
62.5°	248.5	326.9	406.4	451.0	465.1
65°	217.7	298.0	378.9	425.4	439.1
67.5°	190.6	270.1	352.6	401.6	417.2
70°	161.2	243.3	329.5	380.4	396.0
72.5°	132.6	218.5	306.5	360.0	376.7
75°	105.1	193.9	285.7	339.9	357.8
77.5°	78.4	171.3	265.3	321.7	339.6
80°	55.0	150.5	246.3	304.3	323.2
82.5°	34.2	131.9	227.7	287.2	306.5
85°	16.7	113.3	210.3	270.1	289.4
87.5°	4.8	97.0	193.9	253.7	272.7
90°	0.4	83.2	178.3	238.9	257.8
92.5°	0.7	71.0	165.0	224.0	244.1
95°	1.1	60.2	150.1	209.5	228.1
97.5°	1.1	49.8	136.3	195.0	213.2
100°	1.1	39.8	123.0	179.8	198.4
102.5°	1.1	30.1	110.0	165.7	183.5
105°	1.1	19.7	97.7	151.9	169.8
107.5°	1.1	8.5	84.7	137.1	154.9
110°	1.1	1.9	72.1	123.3	140.8



TEST NUMBER: P290010

CATALOG NUMBER: 4SSRK-RB-30-L840-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	1.1	60.2	108.9	126.3
115°	0.7	1.1	46.8	94.4	110.7
117.5°	0.7	0.7	32.0	80.2	97.0
120°	0.7	0.7	16.7	66.1	81.4
122.5°	0.7	0.4	3.3	50.5	67.2
125°	0.7	0.4	0.0	33.8	50.2
127.5°	0.7	0.4	0.0	17.5	34.2
130°	0.4	0.4	0.0	2.6	16.3
132.5°	0.4	0.4	0.0	0.0	0.7
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)