

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: P289649

Luminaire Tested: **4SSRK-20-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289649  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-11)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SSRK-20-L835-CD1-U  
Description: 2000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH NO LENS AND 80 CRI 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2198.2 lumens  
Efficiency: N/A  
Efficacy: 160.5 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct

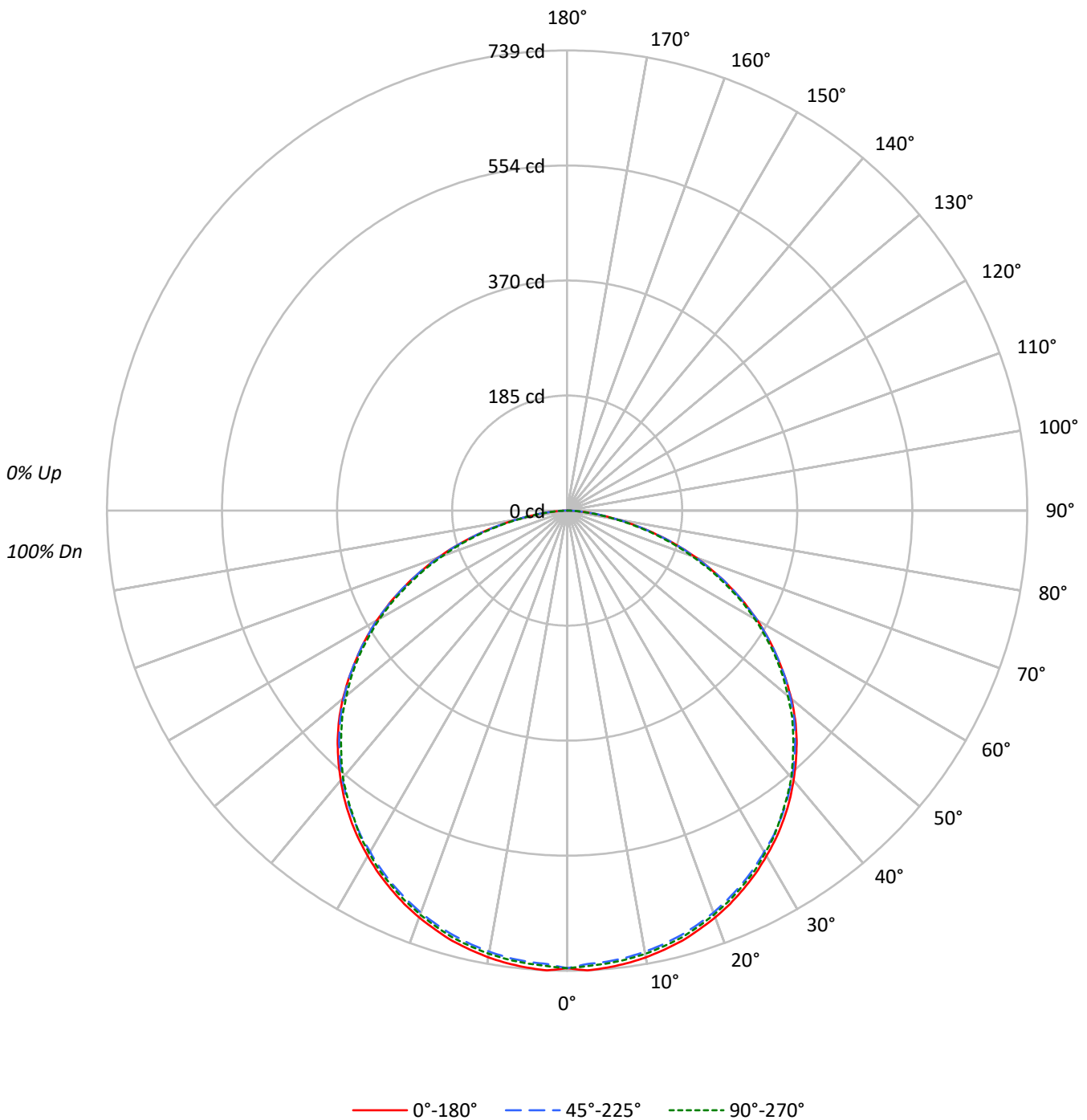
Input Watts (W): 13.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84					84			
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42					42			
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37					37			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	26	37	30	25	37	30	25	36	30	25	23					23			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	47462	47462	47462
5°	47593	37714	35072
10°	47433	31370	27796
15°	47285	26737	22913
20°	47073	23146	19315
25°	46862	20245	16559
30°	46635	17811	14318
35°	46431	15770	12427
40°	46090	13936	10837
45°	45708	12256	9378
50°	44998	10682	8056
55°	43827	9149	6849
60°	42490	7657	5671
65°	40359	6174	4479
70°	37377	4663	3345
75°	32284	3189	2264
80°	24788	1781	1222
85°	14808	643	403



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.6	3.2
10°-20°	200.7	9.1
20°-30°	307.5	14.0
30°-40°	376.9	17.1
40°-50°	399.3	18.2
50°-60°	368.2	16.8
60°-70°	283.0	12.9
70°-80°	156.8	7.1
80°-90°	36.1	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	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°	577.8	26.3
0°-40°	954.8	43.4
0°-60°	1722.3	78.4
0°-90°	2198.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2198.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	735	735	735	735	735	
5°	737	734	727	734	730	70
15°	715	712	706	712	710	202
25°	670	668	663	669	666	309
35°	606	603	600	602	599	379
45°	521	520	518	517	513	402
55°	412	416	413	411	408	369
65°	288	288	288	284	281	284
75°	150	150	149	147	144	158
85°	30	30	29	28	25	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	734.9	734.9	734.9	734.9	734.9
2.5°	739.2	735.6	728.9	735.6	732.2
5°	736.8	733.7	727.2	734.2	730.3
7.5°	733.4	730.8	724.3	731.0	727.2
10°	728.6	725.7	719.4	726.7	722.8
12.5°	722.1	719.4	713.4	720.2	716.8
15°	715.1	711.7	706.1	712.4	710.0
17.5°	705.4	702.8	697.2	703.2	700.6
20°	695.3	692.6	687.1	693.1	690.2
22.5°	683.7	681.0	675.2	681.7	678.8
25°	670.4	668.0	662.7	669.4	665.8
27.5°	656.4	654.4	648.6	654.2	652.0
30°	640.4	639.2	632.9	637.3	635.4
32.5°	624.2	622.1	617.7	621.1	619.2
35°	606.1	603.2	600.3	602.5	599.1
37.5°	586.8	584.9	581.7	583.7	579.8
40°	565.8	564.1	561.7	562.2	560.0
42.5°	544.0	542.1	540.2	539.2	536.8
45°	521.3	519.6	517.7	517.0	513.4
47.5°	496.7	495.5	494.3	492.6	489.9
50°	470.1	470.6	468.4	467.0	462.4
52.5°	441.6	444.5	441.4	439.2	436.5
55°	412.4	415.5	412.9	411.2	408.3
57.5°	383.4	384.8	383.1	381.9	378.1
60°	352.7	353.9	352.7	350.1	348.1
62.5°	321.1	322.5	320.1	318.2	315.5
65°	287.7	288.4	288.0	284.1	280.7
67.5°	254.1	255.4	253.9	251.2	247.9
70°	220.6	219.8	218.6	216.7	212.4
72.5°	185.1	185.1	184.8	181.2	179.0
75°	149.5	149.8	149.1	146.6	144.5
77.5°	114.0	116.7	114.8	112.3	109.9
80°	82.4	84.1	82.4	79.2	77.8
82.5°	52.7	55.1	53.6	50.5	50.0
85°	29.5	30.0	29.2	27.8	25.4
87.5°	11.1	11.6	11.8	9.7	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)