

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: P289745

Luminaire Tested: **4SSRK-TS-30-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289745
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SSRK-TS-30-L835-CD1-U
Description: 3000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 80 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2798.3 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

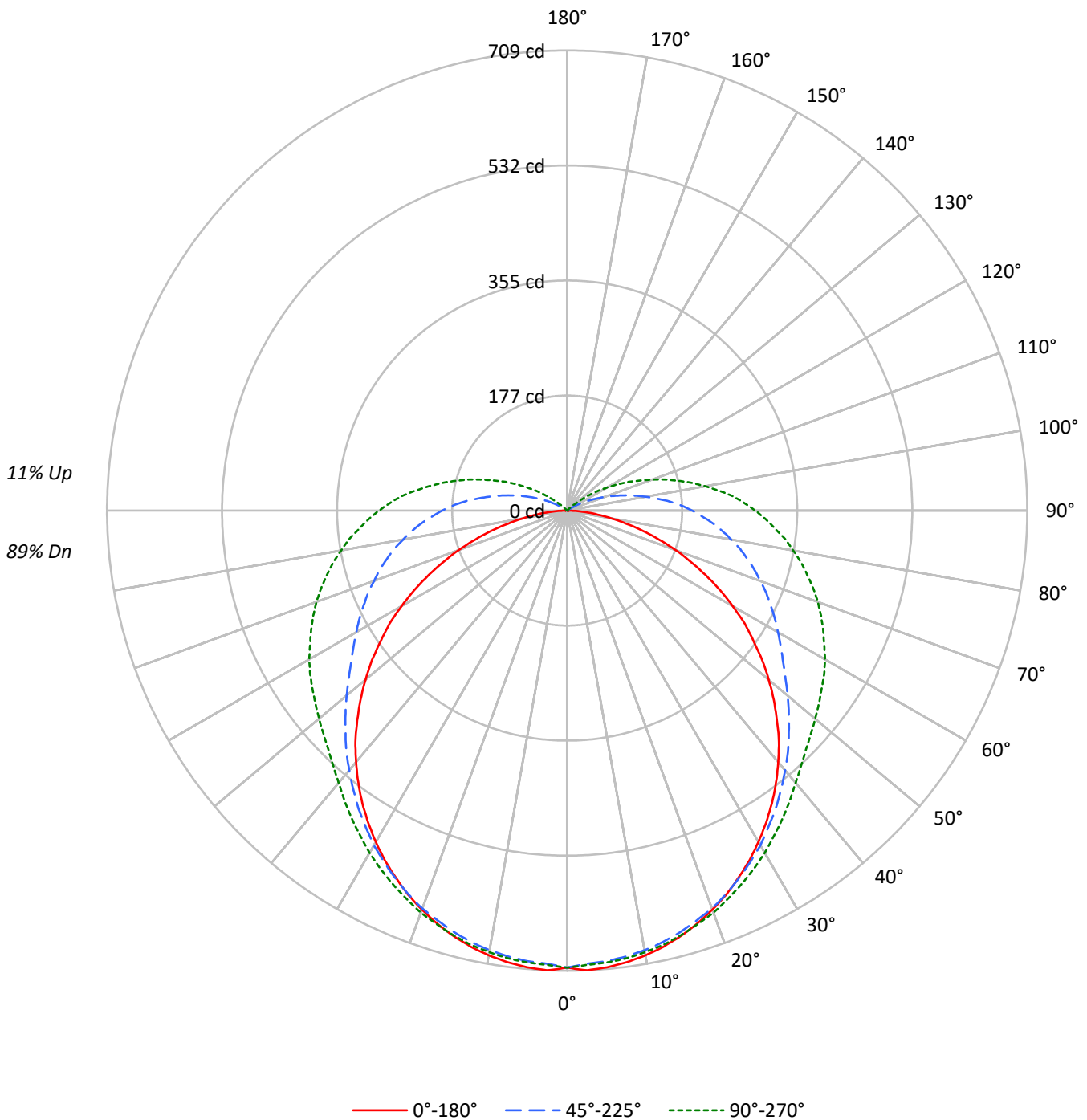
Input Watts (W): 20.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P289745

CATALOG NUMBER: 4SSRK-TS-30-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P289745

CATALOG NUMBER: 4SSRK-TS-30-L835-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	50	30	10	0	
RCR																						
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89				
1	103	97	91	87	99	94	89	84	87	83	79	81	78	75	76	73	71	68				
2	93	83	75	68	89	80	73	67	75	68	63	70	65	60	65	61	57	54				
3	84	72	63	56	80	69	61	54	65	58	52	61	55	50	57	52	47	45				
4	76	63	54	46	73	61	52	45	57	50	44	53	47	42	50	45	40	37				
5	70	56	47	39	67	54	45	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	41	35	30	28				
7	60	46	36	30	57	44	36	29	42	34	28	39	33	28	37	31	27	24				
8	56	41	33	27	53	40	32	26	38	31	25	36	29	25	34	28	24	22				
9	52	38	29	24	50	37	29	23	35	28	23	33	27	22	31	26	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°	45486	45486	45486
5°	45636	36148	33564
10°	45304	29996	26565
15°	44858	25468	21858
20°	44297	21981	18453
25°	43639	19105	15800
30°	42936	16758	13723
35°	42149	14722	12010
40°	41218	12961	10597
45°	40105	11435	9510
50°	38815	10114	8694
55°	37270	9001	8033
60°	35515	8145	7475
65°	33050	7417	6942
70°	30142	6756	6473
75°	26108	6150	6003
80°	20998	5550	5552
85°	14306	4961	5104



TEST NUMBER: P289745

CATALOG NUMBER: 4SSRK-TS-30-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	2.4
10°-20°	190.9	6.8
20°-30°	289.9	10.4
30°-40°	352.4	12.6
40°-50°	376.1	13.4
50°-60°	368.8	13.2
60°-70°	337.0	12.0
70°-80°	286.0	10.2
80°-90°	222.6	8.0
90°-100°	156.9	5.6
100°-110°	93.3	3.3
110°-120°	44.2	1.6
120°-130°	12.8	0.5
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°	547.5	19.6
0°-40°	899.9	32.2
0°-60°	1644.8	58.8
0°-90°	2490.4	89.0
90°-120°	294.4	10.5
90°-150°	307.9	11.0
90°-180°	308.0	11.0
0°-180°	2798.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	704	704	704	704	704	
5°	706	704	697	701	699	67
15°	678	677	673	678	677	191
25°	624	625	625	635	635	288
35°	550	553	560	574	579	344
45°	457	465	483	508	521	353
55°	351	366	406	459	479	314
65°	236	266	346	412	435	233
75°	121	183	288	359	383	128
85°	28	117	225	297	322	32
90°	2	87	192	265	290	3
95°	2	58	159	229	256	2
105°	2	16	91	154	177	2
115°	2	2	37	84	104	2
125°	1	1	2	28	41	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: P289745

CATALOG NUMBER: 4SSRK-TS-30-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	704.3	704.3	704.3	704.3	704.3
2.5°	709.1	706.5	698.9	702.9	700.7
5°	706.5	704.0	697.0	701.0	698.9
7.5°	701.8	699.9	693.0	697.4	695.9
10°	695.9	694.1	687.9	693.0	690.8
12.5°	687.9	686.1	681.0	686.1	685.3
15°	678.4	676.9	672.6	678.4	677.3
17.5°	667.1	666.0	662.3	669.6	668.2
20°	654.3	653.6	652.5	659.0	659.4
22.5°	640.4	640.4	639.7	647.0	647.3
25°	624.3	624.7	625.4	635.3	635.3
27.5°	607.9	609.0	610.8	620.3	622.5
30°	589.6	591.5	595.5	605.7	609.0
32.5°	570.3	573.2	577.6	590.4	593.6
35°	550.2	553.1	560.4	574.3	579.0
37.5°	528.6	531.9	541.4	557.1	563.3
40°	506.0	509.6	522.4	542.1	547.6
42.5°	483.0	488.1	503.8	525.0	533.4
45°	457.4	465.1	483.0	508.5	520.6
47.5°	431.8	440.9	463.2	494.6	509.3
50°	405.5	415.7	443.5	482.2	499.0
52.5°	379.2	390.5	424.1	470.5	488.8
55°	350.7	365.7	406.2	459.2	478.9
57.5°	324.4	340.5	390.2	447.9	469.4
60°	294.8	315.3	375.2	436.2	458.8
62.5°	265.6	290.1	360.9	424.1	446.4
65°	235.6	266.0	346.0	412.1	435.1
67.5°	206.0	241.5	332.1	399.7	423.4
70°	177.9	220.3	316.7	386.9	411.0
72.5°	148.3	201.7	302.5	373.4	397.5
75°	120.9	183.4	287.5	358.7	383.2
77.5°	93.2	166.2	272.9	344.1	369.3
80°	69.8	150.1	256.8	328.8	353.6
82.5°	47.5	134.1	241.1	313.1	339.0
85°	28.5	116.9	225.4	297.0	321.8
87.5°	12.8	101.9	208.2	280.6	306.5
90°	2.2	86.6	192.5	264.9	289.7
92.5°	2.6	72.7	176.4	248.1	272.9
95°	2.2	58.1	158.9	229.4	256.1
97.5°	2.2	45.7	140.3	211.2	235.6
100°	1.8	34.0	122.4	191.8	215.9
102.5°	1.8	24.1	106.3	172.8	196.9
105°	1.8	15.7	90.6	153.8	177.2
107.5°	1.8	8.8	75.3	135.5	159.3
110°	1.8	3.3	61.4	119.1	138.8



TEST NUMBER: P289745

CATALOG NUMBER: 4SSRK-TS-30-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	1.5	47.9	100.8	121.3
115°	1.5	1.5	36.9	84.4	104.5
117.5°	1.5	1.1	25.2	69.0	87.3
120°	1.5	1.1	15.7	55.2	70.9
122.5°	1.1	0.7	7.7	40.9	56.6
125°	1.1	0.7	1.8	28.1	41.3
127.5°	1.1	0.4	0.0	16.8	28.5
130°	0.7	0.4	0.0	8.0	16.8
132.5°	0.7	0.4	0.0	1.5	7.3
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)