

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: P289643

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SSRK-TB-30-L840-CD1-U
Description: 3000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 80 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2988.0 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.08 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

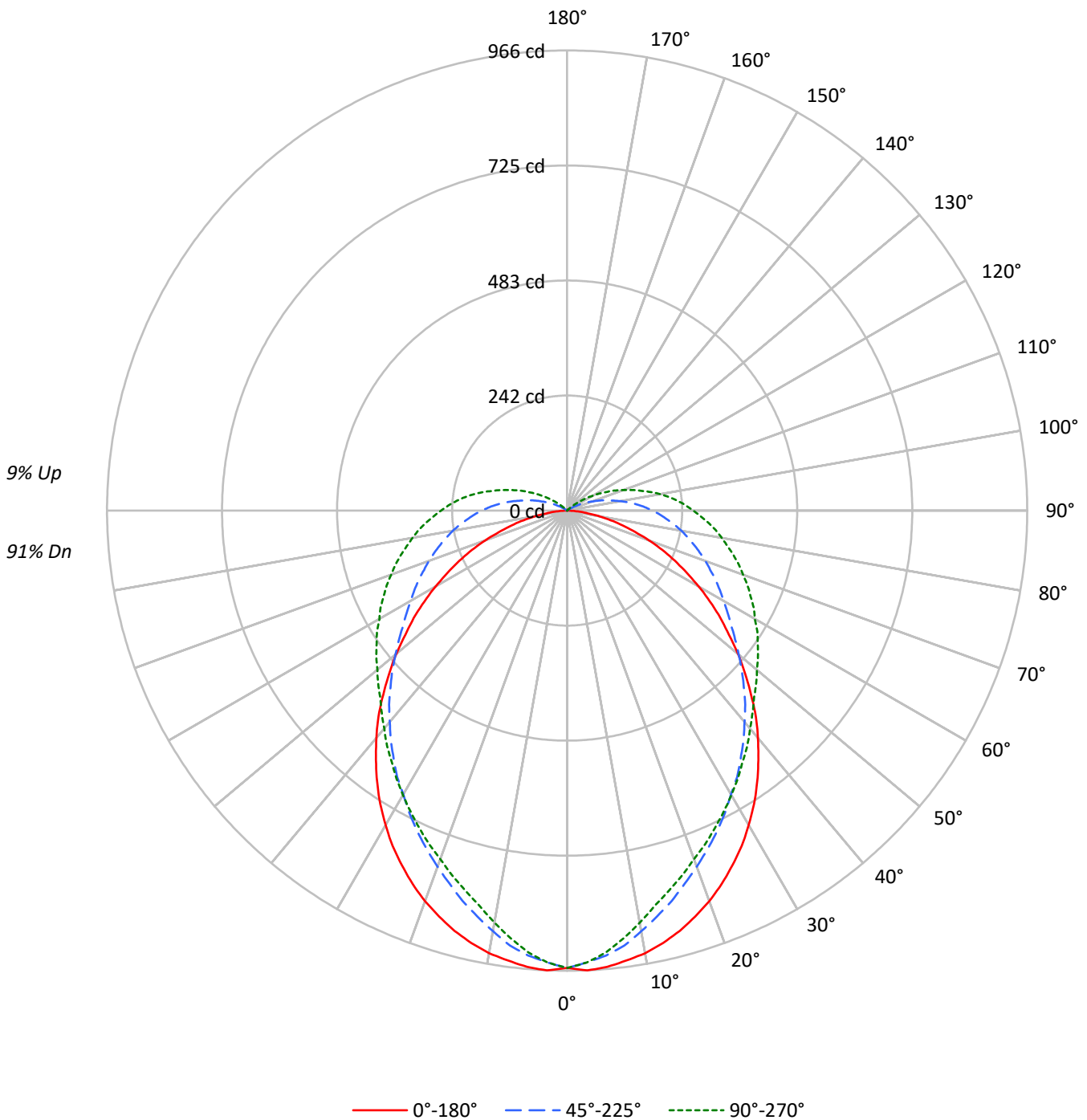
Input Watts (W): 20.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P289643

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

Luminous Intensity Polar Plot





TEST NUMBER: P289643

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

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	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	91																												
1	104	98	93	89	100	95	90	86	89	85	82	84	80	78	78	76	74	71																												
2	94	85	77	71	90	82	75	69	77	71	66	72	67	63	68	64	60	58																												
3	85	74	65	58	82	72	64	57	67	60	55	63	58	53	60	55	51	48																												
4	78	65	56	49	75	63	55	48	60	52	47	56	50	45	53	48	43	41																												
5	72	58	49	42	69	57	48	41	53	46	40	50	44	39	48	42	38	35																												
6	66	53	43	37	64	51	42	36	48	41	35	46	39	34	43	38	33	31																												
7	61	48	39	32	59	46	38	32	44	37	31	42	35	30	40	34	29	27																												
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	31	26	24																												
9	54	40	32	26	52	39	31	26	37	30	25	35	29	24	34	28	24	22																												
10	50	37	29	24	48	36	28	23	34	28	23	33	27	22	31	26	22	20																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	62013	62013	62013
5°	62120	48621	44729
10°	61423	39101	33784
15°	60390	32121	26644
20°	59069	26795	21792
25°	57396	22725	18277
30°	55498	19361	15537
35°	53287	16685	13330
40°	50749	14368	11559
45°	47865	12422	10136
50°	44864	10725	9063
55°	41776	9315	8192
60°	38430	8238	7415
65°	35000	7357	6779
70°	31006	6581	6191
75°	26130	5887	5662
80°	20457	5261	5176
85°	12900	4627	4725



TEST NUMBER: P289643

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.9	3.0
10°-20°	242.3	8.1
20°-30°	350.5	11.7
30°-40°	407.8	13.6
40°-50°	415.1	13.9
50°-60°	386.2	12.9
60°-70°	336.3	11.3
70°-80°	273.8	9.2
80°-90°	207.4	6.9
90°-100°	143.8	4.8
100°-110°	84.5	2.8
110°-120°	39.6	1.3
120°-130°	11.3	0.4
130°-140°	0.6	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°	681.7	22.8
0°-40°	1089.5	36.5
0°-60°	1890.7	63.3
0°-90°	2708.2	90.6
90°-120°	267.9	9.0
90°-150°	279.8	9.4
90°-180°	280.0	9.4
0°-180°	2988.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	960	960	960	960	960	
5°	962	954	938	938	931	91
15°	913	889	848	833	826	257
25°	821	785	744	738	735	378
35°	696	659	635	641	643	435
45°	546	525	525	546	555	421
55°	393	392	420	470	488	351
65°	250	271	343	404	425	247
75°	121	177	275	339	361	129
85°	26	110	210	277	298	30
90°	0	80	178	243	265	1
95°	0	51	147	212	233	0
105°	0	12	83	141	160	0
115°	0	0	33	77	94	0
125°	0	0	2	26	38	0
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°	2	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P289643

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	960.2	960.2	960.2	960.2	960.2
2.5°	966.2	961.7	949.6	954.1	949.6
5°	961.7	954.1	937.5	937.5	931.4
7.5°	952.6	943.5	920.9	913.3	905.7
10°	943.5	929.9	896.7	887.6	878.5
12.5°	929.9	910.3	872.5	858.9	849.8
15°	913.3	889.1	848.3	833.2	825.6
17.5°	893.6	866.4	821.1	809.0	802.9
20°	872.5	840.7	795.4	784.8	778.7
22.5°	848.3	812.0	769.6	762.1	757.5
25°	821.1	784.8	743.9	737.9	734.9
27.5°	793.8	754.5	716.7	713.7	712.2
30°	762.1	724.3	688.0	689.5	689.5
32.5°	730.3	692.5	663.8	666.8	666.8
35°	695.6	659.3	635.1	641.1	642.6
37.5°	659.3	627.5	607.9	616.9	621.5
40°	623.0	594.2	579.1	592.7	597.3
42.5°	586.7	559.5	553.4	570.1	576.1
45°	545.9	524.7	524.7	545.9	554.9
47.5°	506.5	492.9	497.5	524.7	538.3
50°	468.7	458.2	470.3	505.0	520.2
52.5°	427.9	424.9	444.6	486.9	505.0
55°	393.1	391.6	420.4	470.3	488.4
57.5°	355.3	359.9	399.2	453.6	473.3
60°	319.0	328.1	379.5	437.0	455.1
62.5°	282.8	300.9	361.4	420.4	441.5
65°	249.5	270.7	343.2	403.7	424.9
67.5°	216.2	243.4	325.1	388.6	409.8
70°	183.0	219.3	308.5	372.0	393.1
72.5°	149.7	198.1	291.8	355.3	378.0
75°	121.0	176.9	275.2	338.7	361.4
77.5°	93.7	160.3	258.6	325.1	344.8
80°	68.0	142.1	243.4	308.5	329.6
82.5°	43.9	127.0	226.8	291.8	314.5
85°	25.7	110.4	210.2	276.7	297.9
87.5°	10.6	93.7	195.1	260.1	281.2
90°	0.0	80.1	178.4	243.4	264.6
92.5°	0.0	66.5	163.3	228.3	249.5
95°	0.0	51.4	146.7	211.7	232.9
97.5°	0.0	39.3	130.0	195.1	216.2
100°	0.0	30.2	113.4	175.4	198.1
102.5°	0.0	21.2	96.8	157.3	179.9
105°	0.0	12.1	83.2	140.6	160.3
107.5°	0.0	6.0	69.6	124.0	143.6
110°	0.0	1.5	55.9	107.4	125.5



TEST NUMBER: P289643

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	43.9	92.2	110.4
115°	0.0	0.0	33.3	77.1	93.7
117.5°	0.0	0.0	22.7	63.5	78.6
120°	0.0	0.0	13.6	49.9	63.5
122.5°	0.0	0.0	6.0	37.8	49.9
125°	0.0	0.0	1.5	25.7	37.8
127.5°	0.0	0.0	0.0	15.1	25.7
130°	0.0	0.0	0.0	7.6	15.1
132.5°	0.0	0.0	0.0	1.5	6.0
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°	1.5	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)