

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: RSA

Report Number: P13473

Luminaire Tested: **ASAS304011E4TW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P13473
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: RSA
Catalog Number: ASAS304011E4TW
Description: RSA RECESSED LED SQUARE FIXTURE WITH DOWNLIGHT, ADJUSTABLE
BRACKET AT 0 DEGREE, 3000K LED LIGHT ENGINE, 40 DEGREE
REFLECTOR, WHITE TRIM WITH CLEAR GLASS LENS.
Light Source: (1) PHILIPS FORTIMO SLM 3000K LED
87182911 8708000
Ballast/Driver: (1) PHILIPS ADVANCE ELECTRONIC DRIVER
XR025C100V036XPM1

Summary

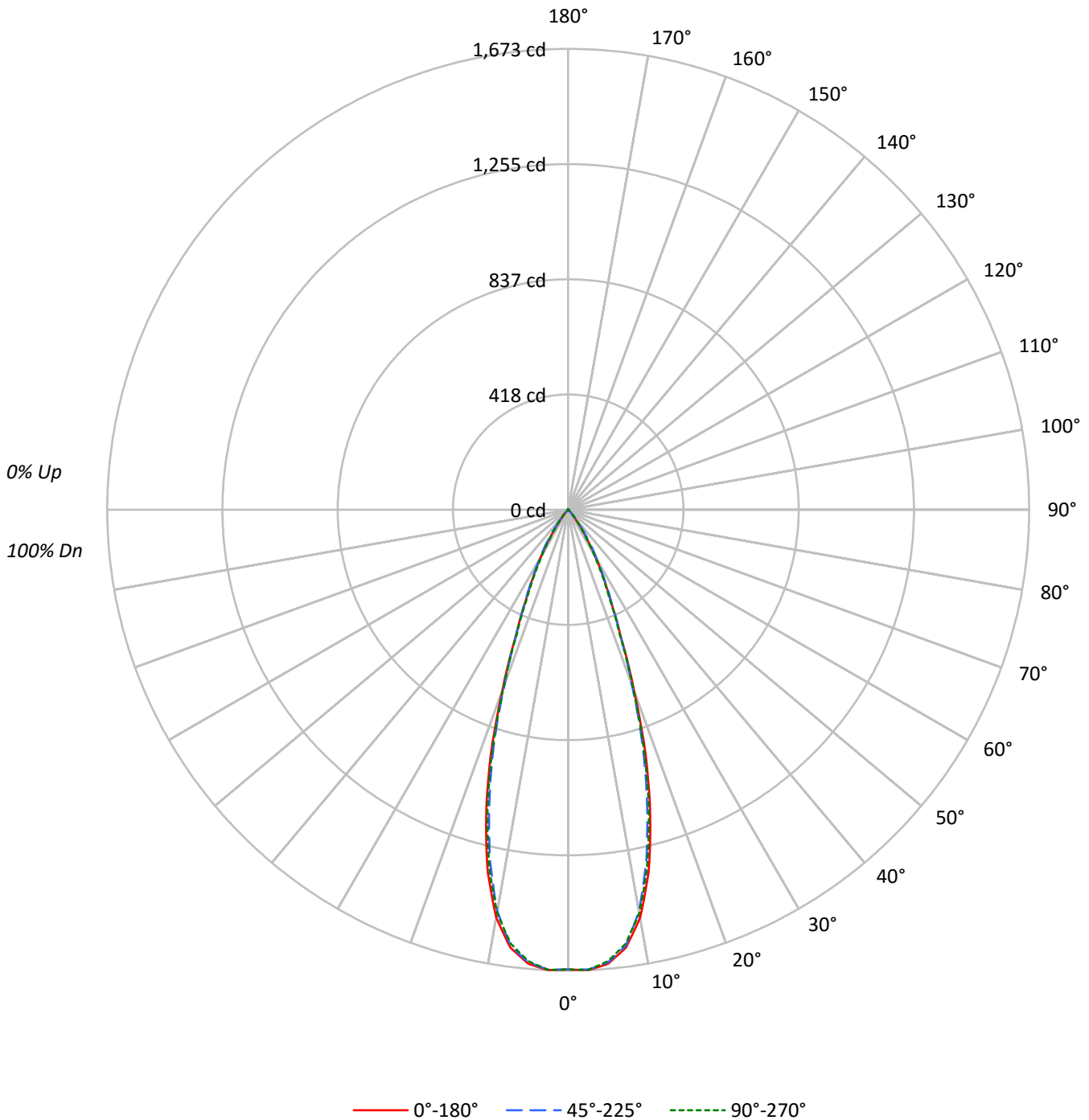
Lumens per Lamp: N/A
Luminaire Lumens: 703.6 lumens
Efficiency: N/A
Efficacy: 33.5 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.61 / 0.57
Luminous Opening: Rectangular (W 0.31' x L: 0.31' x H: 0')
CIE Type: Direct

Input Watts (W): 21
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P13473

CATALOG NUMBER: ASAS304011E4TW

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91
3	106	101	97	93	104	99	96	93	97	94	91	94	92	90	92	90	88	87
4	102	96	91	88	100	95	91	87	93	89	86	91	88	85	89	86	84	83
5	98	91	87	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79
6	95	87	83	79	93	87	82	79	85	81	78	84	80	78	83	80	77	76
7	91	84	79	75	90	83	78	75	82	78	75	81	77	74	80	77	74	73
8	88	80	75	72	87	80	75	72	79	75	72	78	74	71	77	74	71	70
9	85	77	72	69	84	77	72	69	76	72	69	75	71	69	74	71	68	67
10	82	74	70	66	81	74	69	66	73	69	66	72	69	66	72	68	66	65

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	183961	183961	183961
5°	183115	182562	182119
10°	168220	165646	166317
15°	131341	126321	129059
20°	81990	79410	80113
25°	44390	44998	42931
30°	25200	26855	23928
35°	10765	13859	10361
40°	3885	5324	3885
45°	1091	1403	935
50°	171	0	171
55°	192	192	0
60°	0	0	0
65°	0	261	0
70°	0	322	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P13473

CATALOG NUMBER: ASAS304011E4TW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.5	21.7
10°-20°	303.2	43.1
20°-30°	177.7	25.3
30°-40°	60.0	8.5
40°-50°	8.2	1.2
50°-60°	0.5	0.1
60°-70°	0.7	0.1
70°-80°	0.4	0.1
80°-90°	0.5	0.1
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°	633.5	90.0
0°-40°	693.5	98.6
0°-60°	702.2	99.8
0°-90°	703.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	703.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1669	1669	1669	1669	1669	
5°	1655	1654	1650	1649	1646	153
15°	1151	1132	1107	1110	1131	310
25°	365	374	370	370	353	177
35°	80	86	103	86	77	56
45°	7	7	9	7	6	7
55°	1	1	1	1	0	0
65°	0	0	1	1	0	1
75°	0	0	0	1	0	0
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1669	1669	1669	1669	1669
2.5°	1673	1672	1671	1674	1672
5°	1655	1654	1650	1649	1646
7.5°	1604	1600	1597	1591	1590
10°	1503	1495	1480	1482	1486
12.5°	1348	1332	1308	1317	1325
15°	1151	1132	1107	1110	1131
17.5°	937	917	899	896	916
20°	699	701	677	684	683
22.5°	500	521	494	509	488
25°	365	374	370	370	353
27.5°	272	276	282	272	262
30°	198	205	211	196	188
32.5°	132	139	153	136	125
35°	80	86	103	86	77
37.5°	46	50	63	50	44
40°	27	30	37	28	27
42.5°	16	17	21	17	15
45°	7	7	9	7	6
47.5°	3	3	4	3	3
50°	1	2	0	2	1
52.5°	0	0	0	0	0
55°	1	1	1	1	0
57.5°	0	1	1	1	0
60°	0	0	0	0	0
62.5°	3	3	1	1	1
65°	0	0	1	1	0
67.5°	0	1	0	0	0
70°	0	0	1	1	0
72.5°	1	1	1	2	0
75°	0	0	0	1	0
77.5°	0	0	0	0	0
80°	0	0	0	0	0
82.5°	0	0	0	0	0
85°	0	0	0	0	0
87.5°	1	1	1	1	1
90°	0	0	0	0	0

(END OF REPORT)