

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: P21149

Luminaire Tested: **C1NW30LRG**

Issue Date: 3/3/2020

**Test Information**

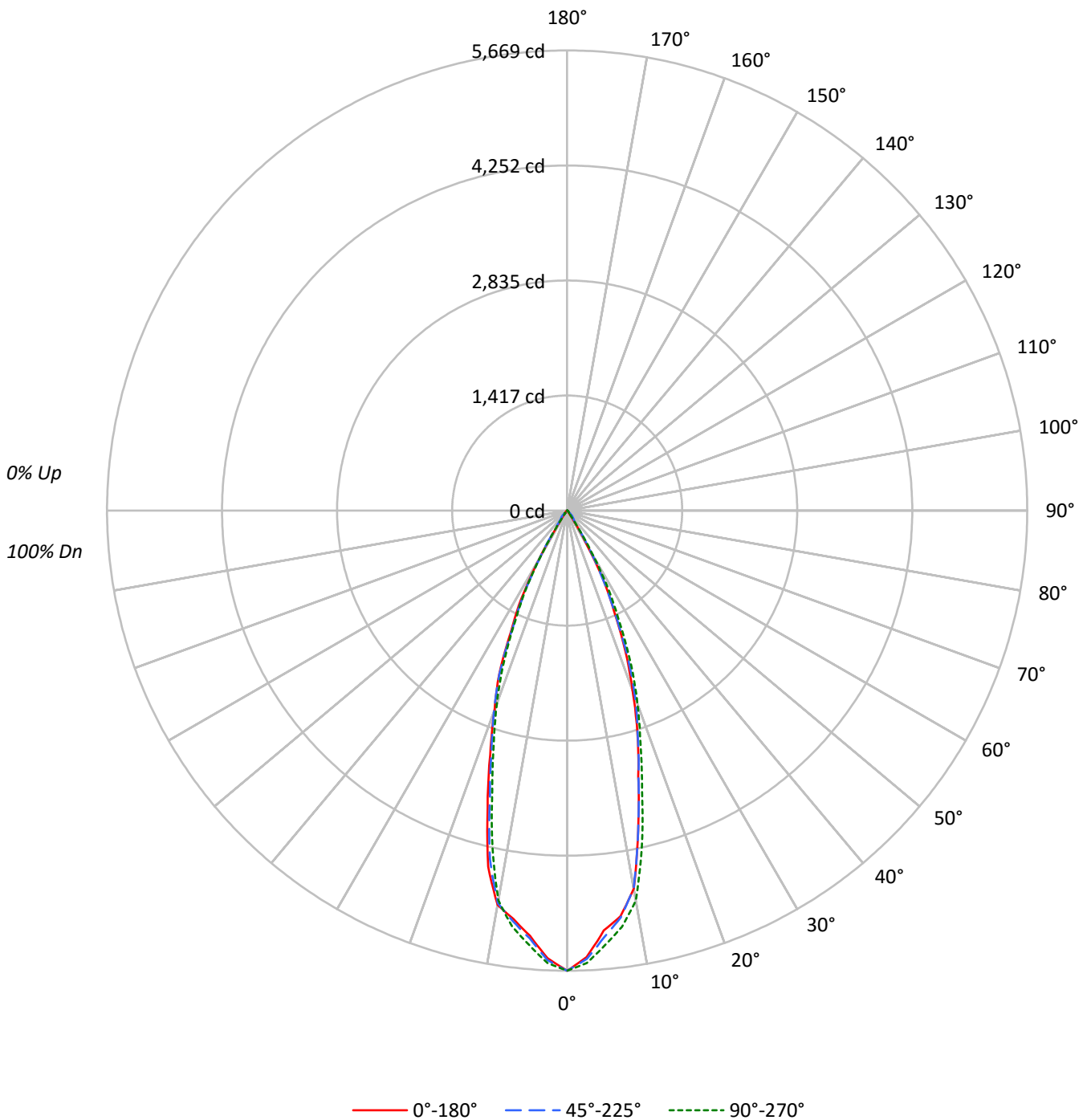
Test Method: LM-79-08  
Report Number: P21149  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: RSA  
Catalog Number: C1NW30LRG  
Description: RSA STASIS LED RECESSED FIXTURE WITH SPECULAR FLOOD REFLECTORS AND 16 LEDS. TESTED WITH DRIVER HOUSING AT 270 DEGREE PLANE AREA. ---ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS CREATED USING A 500 WATT, NIST TRACEABLE, OMNIDIRECTIONAL LAB LUMEN STANDARD IN THE GONIOPHOTOMETER WITH TEST DISTANCE OF 28.75 FEET----  
Light Source: (16) SMT WHITE LEDS 3000K  
XPGWHT-LI-000-00DE7  
Ballast/Driver: ROAL ELECTRONIC DRIVER  
RSDL035-16

**Summary**

Lumens per Lamp: 2319 (1 lamp)  
Luminaire Lumens: 2326.6 lumens  
Efficiency: 100.3%  
Efficacy: 62.0 lumens/watt  
Spacing Criteria (0/90/45): 0.6 / 0.59 / 0.61  
Luminous Opening: Rectangular (W 0.5' x L: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 37.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 0.31418  
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	117	117	117	117	111	111	111	107	107	107	102	102	102	100					100			
1	115	113	110	109	112	110	109	107	106	105	104	103	102	100	99	98	98	96					96			
2	111	106	103	100	108	105	102	99	102	99	97	99	97	95	96	94	93	92					92			
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	87					87			
4	102	96	92	88	101	95	91	88	93	90	87	91	88	86	89	87	85	84					84			
5	99	92	87	84	97	91	87	83	89	85	83	88	84	82	86	83	81	80					80			
6	95	88	83	80	94	87	83	79	86	82	79	84	81	78	83	80	78	77					77			
7	92	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73					73			
8	88	81	76	73	87	80	76	72	79	75	72	78	75	72	77	74	72	70					70			
9	85	78	73	70	84	77	73	69	76	72	69	75	72	69	75	71	69	68					68			
10	82	75	70	67	82	74	70	67	73	69	67	73	69	66	72	69	66	65					65			

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

	0°	90°	180°
0°	366124	366124	366124
5°	336599	348268	341007
10°	310127	319833	323571
15°	226528	238362	253206
20°	162062	174226	179793
25°	97555	109455	116296
30°	35721	49219	51829
35°	2838	6386	6150
40°	2614	3962	2866
45°	2009	2557	2009
50°	1306	1608	1306
55°	1013	1126	1126
60°	388	517	388
65°	153	0	0
70°	0	0	0
75°	250	0	0
80°	372	0	0
85°	1482	741	741



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	492.5	21.2	21.2
10°-20°	990.4	42.6	42.7
20°-30°	688.4	29.6	29.7
30°-40°	115.0	4.9	5.0
40°-50°	32.1	1.4	1.4
50°-60°	7.3	0.3	0.3
60°-70°	0.4	0.0	0.0
70°-80°	0.1	0.0	0.0
80°-90°	0.5	0.0	0.0
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	2171.2	93.3	93.6
0°-40°	2286.3	98.3	98.6
0°-60°	2325.6	100.0	100.3
0°-90°	2326.6	100.0	100.3
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	2326.6	100.0	100.3

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5669	5669	5669	5669	5669	
5°	5192	5271	5372	5291	5260	486
15°	3388	3396	3565	3679	3787	948
25°	1369	1379	1536	1580	1632	626
35°	36	151	81	175	78	70
45°	22	61	28	61	22	17
55°	9	4	10	5	10	8
65°	1	0	0	0	0	1
75°	1	0	0	0	0	1
85°	2	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	5669	5669	5669	5669	5669	5669	5669	5669	5669
2.5°	5505	5505	5528	5559	5578	5585	5543	5533	5518
5°	5192	5236	5271	5334	5372	5365	5291	5264	5260
7.5°	5040	5006	5056	5128	5172	5151	5104	5074	5074
10°	4729	4665	4722	4799	4877	4891	4911	4899	4934
12.5°	4037	4006	4040	4143	4255	4331	4401	4425	4494
15°	3388	3360	3396	3453	3565	3615	3679	3730	3787
17.5°	2884	2864	2895	2938	3002	3036	3097	3119	3156
20°	2358	2407	2452	2509	2535	2608	2631	2636	2616
22.5°	1873	1856	1937	1989	2065	2126	2176	2184	2199
25°	1369	1329	1379	1418	1536	1543	1580	1592	1632
27.5°	970	921	956	1004	1127	1126	1138	1169	1223
30°	479	511	551	591	660	679	677	709	695
32.5°	158	173	253	226	256	257	328	268	219
35°	36	80	151	88	81	95	175	109	78
37.5°	27	63	123	75	36	72	126	67	26
40°	31	61	112	80	47	79	113	63	34
42.5°	26	48	85	64	36	63	85	48	27
45°	22	37	61	48	28	46	61	36	22
47.5°	17	22	31	28	22	29	29	24	17
50°	13	15	11	20	16	19	12	16	13
52.5°	11	10	10	13	13	14	11	11	11
55°	9	9	4	11	10	11	5	10	10
57.5°	7	4	0	5	7	6	1	6	8
60°	3	1	0	1	4	1	0	1	3
62.5°	2	1	0	1	1	1	0	1	1
65°	1	0	0	0	0	0	0	0	0
67.5°	1	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0
72.5°	1	0	0	0	0	0	0	0	0
75°	1	0	0	0	0	0	0	0	0
77.5°	1	0	0	0	0	0	0	0	0
80°	1	0	0	1	0	1	0	0	0
82.5°	1	1	0	0	0	1	0	1	0
85°	2	1	1	1	1	1	1	1	1
87.5°	1	0	0	0	0	0	1	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)