

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: NEO-RAY

Report Number: P534472

Luminaire Tested: **S920DIP-W130-XX4XX-UDD-W-SC**

Issue Date: 6/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534472  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 6/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S920DIP-W130-XX4XX-UDD-W-SC  
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE  
WHITE RECTANGULAR HOUSING WITH SOLID UPLIGHT COVER  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

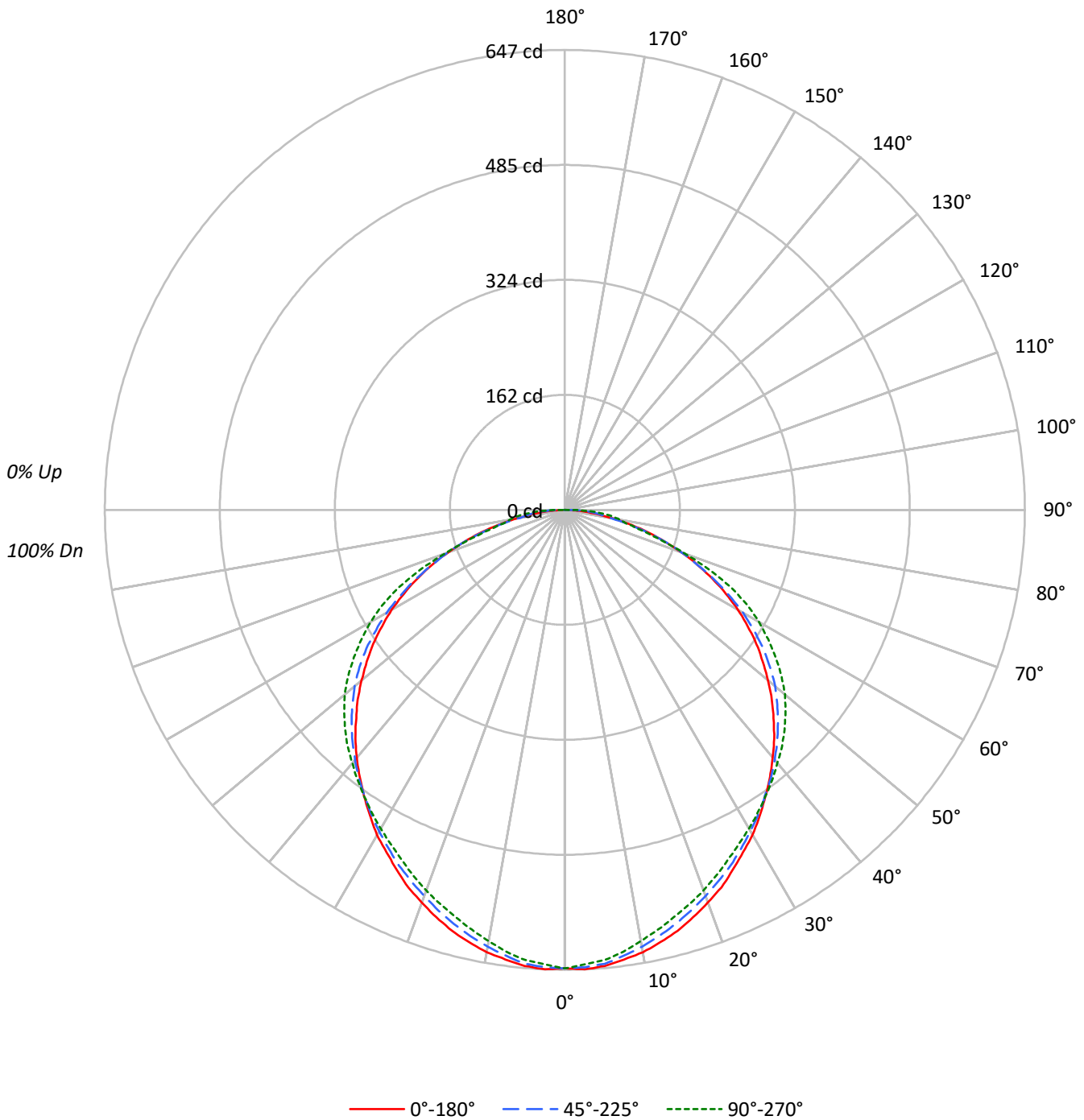
Lumens per Lamp: N/A  
Luminaire Lumens: 1824.0 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 3.83' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 18.1  
Input Voltage (V): 120  
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: 24 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	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	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83				83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69				69
3	90	79	71	64	87	77	70	63	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	46	37	32	44	37	31	43	36	31	42	36	31	29				29
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26				26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24				24

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

	0°	45°	90°
0°	2717	2717	2717
5°	2707	2638	2604
10°	2672	2530	2471
15°	2627	2427	2350
20°	2574	2327	2248
25°	2521	2240	2148
30°	2475	2152	2071
35°	2419	2073	2004
40°	2372	2001	1945
45°	2321	1926	1893
50°	2268	1845	1830
55°	2210	1733	1731
60°	2127	1582	1609
65°	2002	1387	1420
70°	1817	1162	1086
75°	1571	873	753
80°	1186	553	605
85°	692	403	448



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.5	3.3
10°-20°	169.9	9.3
20°-30°	253.9	13.9
30°-40°	307.6	16.9
40°-50°	327.6	18.0
50°-60°	305.7	16.8
60°-70°	234.8	12.9
70°-80°	124.4	6.8
80°-90°	39.4	2.2
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°	484.3	26.6
0°-40°	792.0	43.4
0°-60°	1425.3	78.1
0°-90°	1824.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1824.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	645	645	645	645	645	
5°	644	640	641	638	636	61
15°	613	607	603	597	593	173
25°	559	554	552	545	543	258
35°	492	491	491	491	492	308
45°	415	416	424	433	437	321
55°	329	331	341	354	362	293
65°	229	229	232	252	257	226
75°	120	117	116	112	111	127
85°	25	26	38	46	49	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	645	645	645	645	645
2.5°	647	643	644	643	640
5°	644	640	641	638	636
7.5°	638	634	633	629	627
10°	632	626	624	619	616
12.5°	623	618	614	608	605
15°	613	607	603	597	593
17.5°	601	595	591	585	582
20°	588	582	578	571	570
22.5°	575	569	565	558	557
25°	559	554	552	545	543
27.5°	543	539	537	532	530
30°	528	524	522	518	518
32.5°	510	508	507	504	505
35°	492	491	491	491	492
37.5°	474	473	476	477	479
40°	455	454	459	462	465
42.5°	436	436	442	448	452
45°	415	416	424	433	437
47.5°	395	396	405	416	421
50°	373	375	386	397	404
52.5°	351	353	364	377	384
55°	329	331	341	354	362
57.5°	305	307	315	329	339
60°	281	283	289	305	315
62.5°	255	256	260	281	289
65°	229	229	232	252	257
67.5°	202	201	202	218	219
70°	174	173	175	181	179
72.5°	147	145	147	143	142
75°	120	117	116	112	111
77.5°	93	92	88	86	89
80°	67	69	63	73	78
82.5°	45	45	50	61	66
85°	25	26	38	46	49
87.5°	8	15	22	27	29
90°	0	0	0	0	0

(END OF REPORT)