

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: P534516

Luminaire Tested: **S921DIP-W130-XX4XX-UDD-W-PC**

Issue Date: 6/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534516  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 6/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S921DIP-W130-XX4XX-UDD-W-PC  
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE  
WHITE CURVILINEAR HOUSING WITH PERFORATED UPLIGHT COVER  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

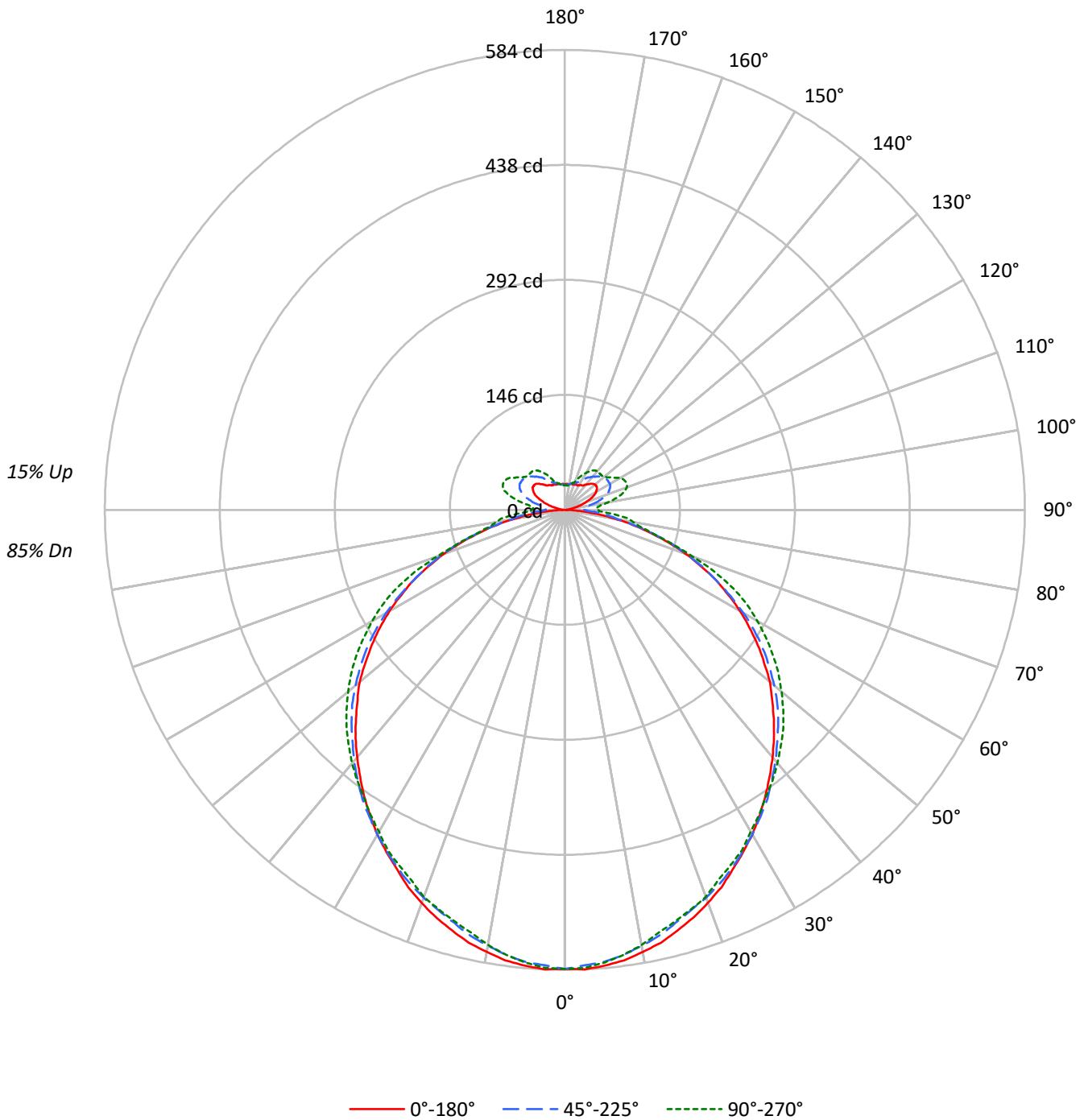
Lumens per Lamp: N/A  
Luminaire Lumens: 1982.2 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 3.83' x H: 0.25')  
CIE Type: Semi-Direct

Input Watts (W): 18.2  
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	0
RCR																		
0	115	115	115	115	111	111	111	111	103	103	103	95	95	95	88	88	88	85
1	105	100	96	92	101	96	92	89	89	86	83	83	80	78	77	75	73	70
2	95	87	80	74	91	84	77	72	78	73	68	72	68	64	67	64	61	58
3	87	76	68	61	83	73	66	60	68	62	57	63	58	54	59	55	51	48
4	79	67	58	52	76	65	57	51	60	54	48	56	51	46	53	48	44	41
5	73	60	51	44	69	58	50	43	54	47	42	50	44	40	47	42	38	35
6	67	54	45	39	64	52	44	38	49	42	36	46	39	35	43	37	33	31
7	62	49	40	34	59	47	39	33	44	37	32	41	35	31	39	34	30	27
8	58	44	36	30	55	43	35	30	40	33	28	38	32	27	36	30	26	24
9	54	41	32	27	52	39	32	27	37	30	26	35	29	25	33	28	24	22
10	50	37	30	24	48	36	29	24	34	28	23	32	26	22	31	25	22	20

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

	0°	45°	90°
0°	2456	2456	2456
5°	2443	2371	2362
10°	2410	2279	2251
15°	2370	2185	2144
20°	2325	2110	2063
25°	2273	2037	1970
30°	2231	1962	1887
35°	2183	1891	1812
40°	2137	1814	1757
45°	2097	1740	1698
50°	2067	1659	1626
55°	2009	1561	1545
60°	1945	1434	1440
65°	1854	1267	1304
70°	1702	1089	1043
75°	1466	866	780
80°	1133	605	683
85°	609	467	558



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.8	2.8
10°-20°	154.2	7.8
20°-30°	231.5	11.7
30°-40°	279.9	14.1
40°-50°	296.6	15.0
50°-60°	276.6	14.0
60°-70°	215.9	10.9
70°-80°	122.0	6.2
80°-90°	48.6	2.4
90°-100°	28.5	1.4
100°-110°	48.8	2.5
110°-120°	62.1	3.1
120°-130°	56.3	2.8
130°-140°	43.8	2.2
140°-150°	31.0	1.6
150°-160°	18.7	0.9
160°-170°	9.9	0.5
170°-180°	3.1	0.2
0°-30°	440.5	22.2
0°-40°	720.4	36.3
0°-60°	1293.6	65.3
0°-90°	1680.1	84.8
90°-120°	139.4	7.0
90°-150°	270.5	13.6
90°-180°	302.0	15.2
0°-180°	1982.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	583	583	583	583	583	
5°	581	581	576	578	577	55
15°	553	552	543	543	541	156
25°	504	505	502	500	498	233
35°	444	449	448	447	445	278
45°	375	382	383	390	392	290
55°	299	304	307	317	323	267
65°	212	211	212	229	236	209
75°	112	110	115	114	115	119
85°	22	29	44	55	61	27
90°	1	12	24	36	42	2
95°	3	15	26	36	42	4
105°	18	31	45	64	74	19
115°	39	51	63	78	85	38
125°	50	56	66	69	72	44
135°	47	47	60	63	64	36
145°	38	40	50	58	61	24
155°	35	36	39	44	47	16
165°	34	34	35	35	35	10
175°	33	33	32	32	31	3
180°	32	32	32	32	32	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	583	583	583	583	583
2.5°	584	584	579	582	582
5°	581	581	576	578	577
7.5°	577	576	570	571	570
10°	570	569	562	563	561
12.5°	563	561	554	552	550
15°	553	552	543	543	541
17.5°	543	541	533	534	532
20°	531	530	524	525	523
22.5°	519	518	514	513	509
25°	504	505	502	500	498
27.5°	490	491	489	488	487
30°	476	478	476	474	472
32.5°	460	463	462	460	459
35°	444	449	448	447	445
37.5°	427	434	432	433	433
40°	410	417	416	419	420
42.5°	393	399	399	405	406
45°	375	382	383	390	392
47.5°	357	363	366	374	376
50°	340	344	347	356	359
52.5°	319	324	327	338	342
55°	299	304	307	317	323
57.5°	278	283	285	297	303
60°	257	260	262	274	282
62.5°	234	236	237	253	261
65°	212	211	212	229	236
67.5°	187	187	189	203	206
70°	163	162	164	173	172
72.5°	138	135	141	141	141
75°	112	110	115	114	115
77.5°	88	88	89	93	97
80°	64	67	69	81	88
82.5°	41	46	56	75	80
85°	22	29	44	55	61
87.5°	8	19	29	39	44
90°	1	12	24	36	42
92.5°	1	13	24	35	40
95°	3	15	26	36	42
97.5°	6	18	28	40	47
100°	9	22	32	48	57
102.5°	13	26	39	57	66
105°	18	31	45	64	74
107.5°	23	37	51	70	80
110°	29	42	56	74	84



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	34	47	60	76	85
115°	39	51	63	78	85
117.5°	43	54	65	78	84
120°	46	56	66	76	81
122.5°	48	56	66	73	76
125°	50	56	66	69	72
127.5°	50	55	65	66	68
130°	50	53	63	64	65
132.5°	49	50	62	63	64
135°	47	47	60	63	64
137.5°	44	45	57	64	64
140°	42	43	55	63	64
142.5°	39	42	52	61	63
145°	38	40	50	58	61
147.5°	37	39	46	55	58
150°	36	38	42	52	54
152.5°	35	37	40	49	51
155°	35	36	39	44	47
157.5°	35	36	37	40	42
160°	34	35	36	38	38
162.5°	34	34	36	36	36
165°	34	34	35	35	35
167.5°	34	34	34	34	34
170°	33	33	33	33	33
172.5°	33	33	32	32	31
175°	33	33	32	32	31
177.5°	33	33	32	32	31
180°	32	32	32	32	32

(END OF REPORT)