

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: P534532

Luminaire Tested: **S921DIP-W240-XX4XX-UDD-W-SC**

Issue Date: 6/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534532  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35514)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S921DIP-W240-XX4XX-UDD-W-SC  
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE  
WHITE CURVILINEAR HOUSING WITH SOLID UPLIGHT COVER  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

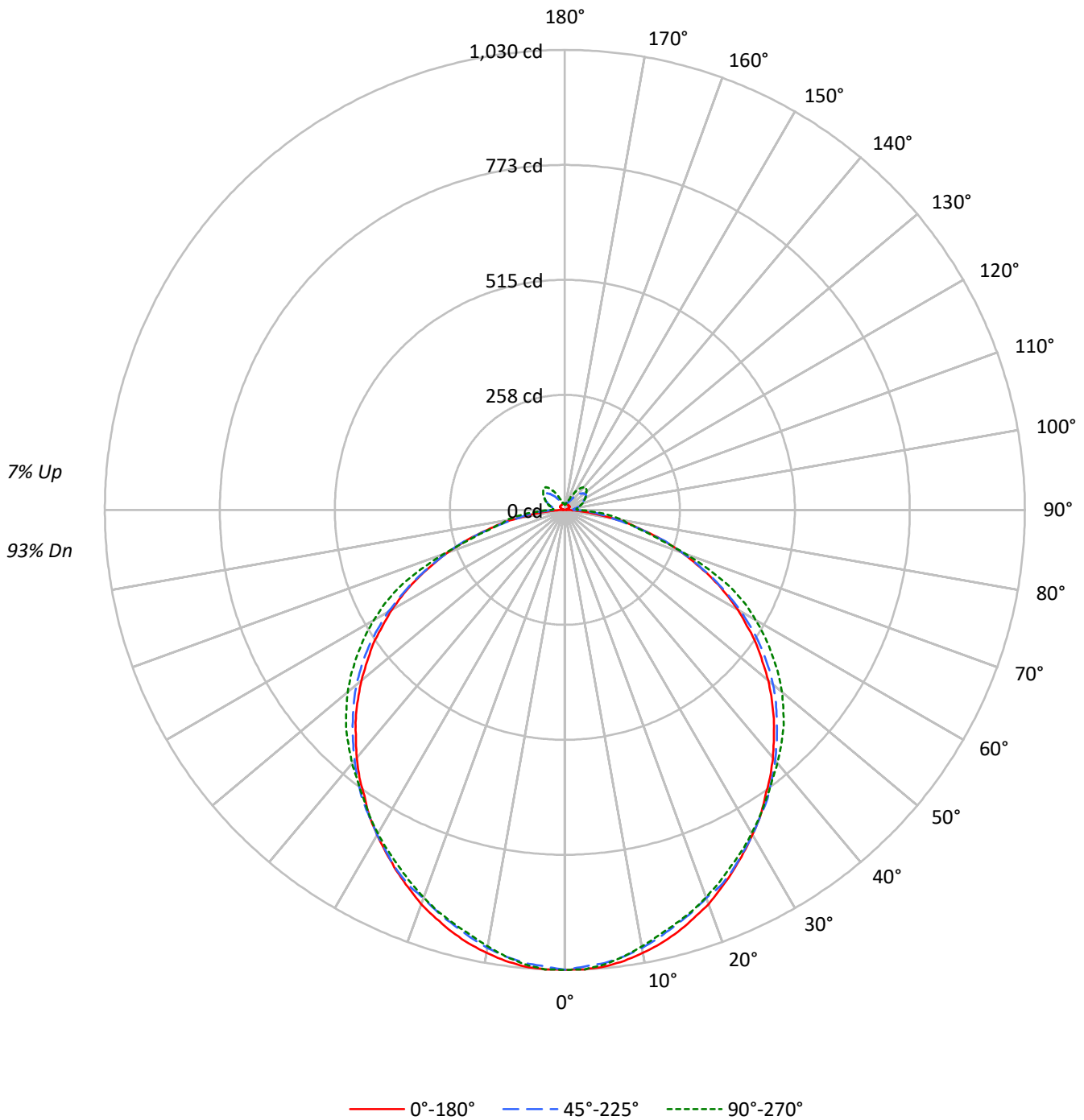
Lumens per Lamp: N/A  
Luminaire Lumens: 3123.7 lumens  
Efficiency: N/A  
Efficacy: 112.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')  
CIE Type: Direct

Input Watts (W): 27.7  
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



TEST NUMBER: P534532  
CATALOG NUMBER: S921DIP-W240-XX4XX-UDD-W-SC

### Luminous Intensity Polar Plot





TEST NUMBER: P534532

CATALOG NUMBER: S921DIP-W240-XX4XX-UDD-W-SC

**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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	107	102	98	94	104	99	95	92	94	91	88	89	86	84	84	82	80	78
2	97	89	82	76	94	86	80	75	82	77	72	78	73	70	74	70	67	64
3	89	78	70	63	85	76	68	62	72	66	60	68	63	58	65	60	57	54
4	81	69	60	53	78	67	59	53	64	57	51	61	55	50	58	53	48	46
5	74	61	52	46	72	60	52	45	57	50	44	54	48	43	52	46	42	40
6	69	55	46	40	66	54	46	39	51	44	39	49	43	38	47	41	37	35
7	64	50	41	35	61	49	41	35	47	39	34	45	38	33	43	37	33	31
8	59	46	37	31	57	45	37	31	43	36	30	41	35	30	39	34	29	27
9	55	42	34	28	53	41	33	28	39	32	27	38	31	27	36	31	26	24
10	52	39	31	25	50	38	30	25	36	29	25	35	29	24	34	28	24	22

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

	0°	45°	90°
0°	4091	4091	4091
5°	4066	3932	3918
10°	4009	3768	3707
15°	3942	3595	3516
20°	3865	3441	3350
25°	3773	3319	3183
30°	3690	3166	3040
35°	3600	3034	2895
40°	3529	2887	2779
45°	3452	2741	2673
50°	3364	2598	2543
55°	3268	2417	2381
60°	3131	2194	2191
65°	2941	1914	1941
70°	2664	1587	1484
75°	2241	1190	1024
80°	1714	774	842
85°	855	525	590



TEST NUMBER: P534532  
 CATALOG NUMBER: S921DIP-W240-XX4XX-UDD-W-SC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.9	3.1
10°-20°	273.0	8.7
20°-30°	409.5	13.1
30°-40°	494.0	15.8
40°-50°	521.7	16.7
50°-60°	483.8	15.5
60°-70°	372.3	11.9
70°-80°	200.0	6.4
80°-90°	67.4	2.2
90°-100°	21.9	0.7
100°-110°	31.6	1.0
110°-120°	39.7	1.3
120°-130°	40.4	1.3
130°-140°	33.8	1.1
140°-150°	21.7	0.7
150°-160°	10.2	0.3
160°-170°	4.4	0.1
170°-180°	1.3	0.0
0°-30°	779.4	25.0
0°-40°	1273.4	40.8
0°-60°	2278.9	73.0
0°-90°	2918.6	93.4
90°-120°	93.2	3.0
90°-150°	189.1	6.1
90°-180°	205.0	6.6
0°-180°	3123.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1030	1030	1030	1030	1030	
5°	1027	1027	1019	1024	1022	97
15°	978	977	962	961	959	276
25°	892	893	890	885	880	411
35°	782	792	790	789	787	491
45°	662	672	672	686	692	510
55°	524	530	537	558	567	467
65°	365	365	368	395	408	360
75°	188	186	186	180	180	202
85°	35	45	61	72	80	45
90°	2	13	21	27	29	2
95°	2	16	21	26	27	2
105°	6	30	34	35	35	6
115°	10	37	47	48	48	10
125°	13	29	58	60	60	11
135°	13	19	51	64	68	10
145°	13	16	34	53	58	8
155°	14	16	19	27	32	6
165°	14	14	16	16	16	4
175°	14	14	13	13	11	1
180°	13	13	13	13	13	

TEST NUMBER: P534532

CATALOG NUMBER: S921DIP-W240-XX4XX-UDD-W-SC

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1030.0	1030.0	1030.0	1030.0	1030.0
2.5°	1030.0	1030.0	1023.5	1030.0	1030.0
5°	1026.7	1026.7	1018.7	1023.5	1021.9
7.5°	1018.7	1017.1	1009.1	1010.7	1009.1
10°	1007.5	1007.5	996.2	996.2	993.0
12.5°	994.6	993.0	980.1	978.5	975.3
15°	978.5	976.9	962.5	960.9	959.3
17.5°	959.3	956.0	944.8	946.4	943.2
20°	940.0	936.8	925.5	928.7	923.9
22.5°	915.9	914.3	911.0	907.8	903.0
25°	891.8	893.4	890.2	885.3	880.5
27.5°	866.1	867.7	864.5	862.8	859.6
30°	840.4	843.6	840.4	840.4	837.1
32.5°	814.6	817.9	814.6	813.0	813.0
35°	782.5	792.1	790.5	788.9	787.3
37.5°	755.2	764.8	761.6	763.2	763.2
40°	724.7	734.3	732.7	739.1	740.7
42.5°	692.5	702.2	702.2	713.4	716.6
45°	662.0	671.6	671.6	686.1	692.5
47.5°	628.3	636.3	641.1	657.2	663.6
50°	594.5	600.9	609.0	626.6	634.7
52.5°	557.6	565.6	573.6	594.5	602.5
55°	523.8	530.2	536.7	557.6	567.2
57.5°	483.6	491.7	496.5	517.4	531.8
60°	446.7	451.5	456.3	478.8	493.3
62.5°	406.5	409.7	411.3	438.7	454.7
65°	364.7	364.7	368.0	395.3	408.1
67.5°	319.8	321.4	323.0	345.5	348.7
70°	278.0	274.8	278.0	290.8	287.6
72.5°	234.6	229.8	236.2	231.4	225.0
75°	188.0	186.4	186.4	180.0	180.0
77.5°	149.4	146.2	143.0	143.0	146.2
80°	107.7	109.3	106.0	120.5	131.8
82.5°	69.1	72.3	83.6	104.4	107.7
85°	35.3	45.0	61.1	72.3	80.3
87.5°	12.9	27.3	35.3	45.0	49.8
90°	1.6	12.9	20.9	27.3	28.9
92.5°	1.6	14.5	19.3	24.1	25.7
95°	1.6	16.1	20.9	25.7	27.3
97.5°	3.2	19.3	24.1	27.3	28.9
100°	3.2	22.5	27.3	28.9	30.5
102.5°	4.8	25.7	30.5	32.1	32.1
105°	6.4	30.5	33.7	35.3	35.3
107.5°	6.4	33.7	37.0	38.6	38.6
110°	8.0	37.0	40.2	41.8	41.8



TEST NUMBER: P534532

CATALOG NUMBER: S921DIP-W240-XX4XX-UDD-W-SC

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	9.6	38.6	43.4	45.0	45.0
115°	9.6	37.0	46.6	48.2	48.2
117.5°	11.2	37.0	49.8	49.8	49.8
120°	11.2	35.3	53.0	53.0	53.0
122.5°	12.9	32.1	54.6	56.2	56.2
125°	12.9	28.9	57.8	59.5	59.5
127.5°	12.9	27.3	57.8	61.1	61.1
130°	12.9	24.1	56.2	62.7	62.7
132.5°	12.9	20.9	54.6	65.9	65.9
135°	12.9	19.3	51.4	64.3	67.5
137.5°	12.9	17.7	48.2	64.3	67.5
140°	12.9	17.7	43.4	61.1	65.9
142.5°	12.9	17.7	38.6	57.8	62.7
145°	12.9	16.1	33.7	53.0	57.8
147.5°	12.9	16.1	28.9	46.6	51.4
150°	12.9	16.1	24.1	40.2	46.6
152.5°	12.9	16.1	20.9	33.7	40.2
155°	14.5	16.1	19.3	27.3	32.1
157.5°	14.5	16.1	17.7	22.5	24.1
160°	14.5	14.5	16.1	19.3	19.3
162.5°	14.5	14.5	16.1	16.1	16.1
165°	14.5	14.5	16.1	16.1	16.1
167.5°	14.5	14.5	16.1	16.1	14.5
170°	14.5	14.5	14.5	14.5	14.5
172.5°	14.5	14.5	14.5	14.5	12.9
175°	14.5	14.5	12.9	12.9	11.2
177.5°	14.5	14.5	14.5	12.9	11.2
180°	12.9	12.9	12.9	12.9	12.9

(END OF REPORT)