

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: P534547

Luminaire Tested: **S921DIP-W435-XX4XX-UDD-W-SC**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534547
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-W435-XX4XX-UDD-W-SC
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE CURVILINEAR HOUSING WITH SOLID UPLIGHT COVER
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

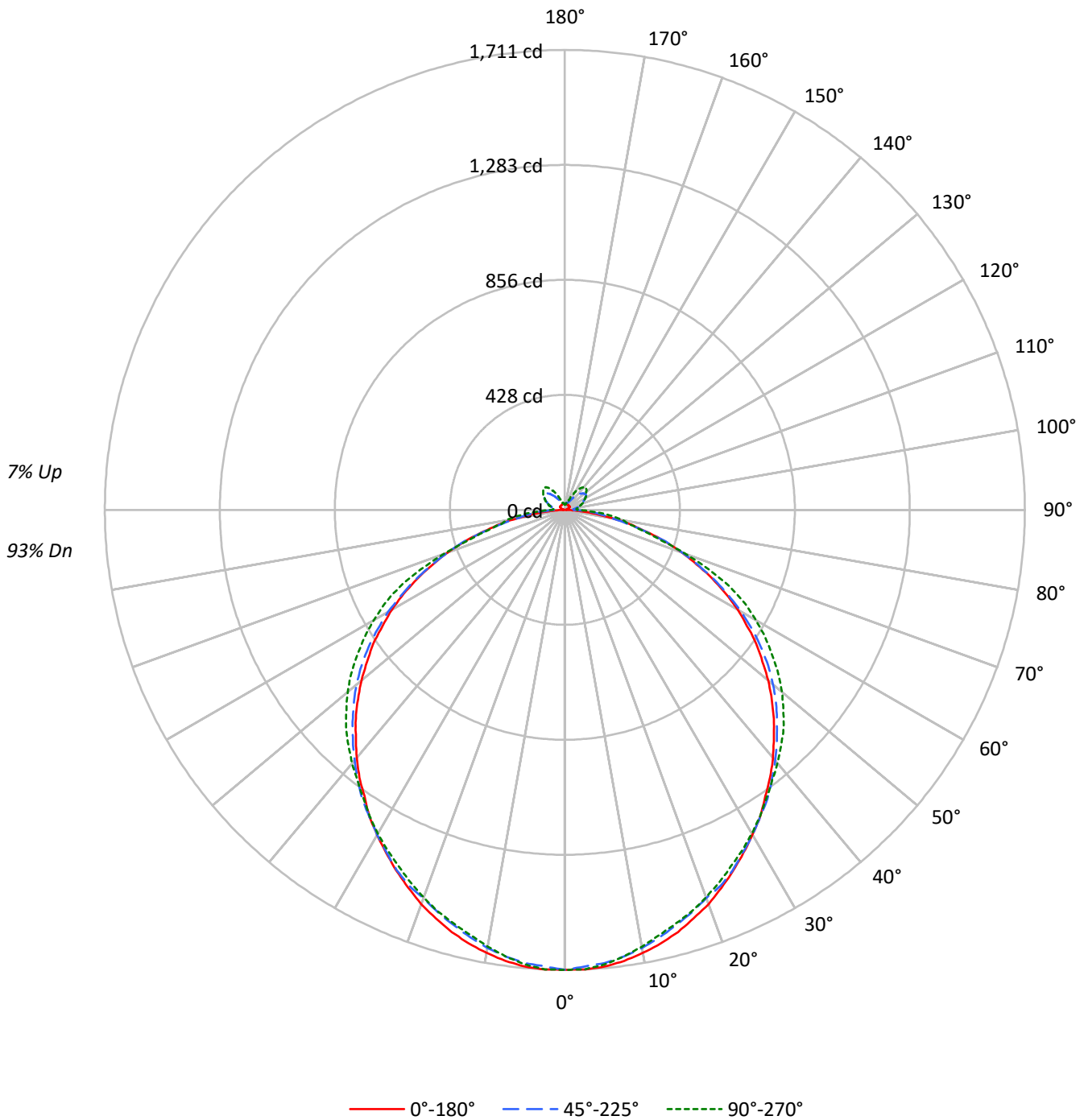
Lumens per Lamp: N/A
Luminaire Lumens: 5189.5 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: Direct

Input Watts (W): 50.7
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: P534547
CATALOG NUMBER: S921DIP-W435-XX4XX-UDD-W-SC

Luminous Intensity Polar Plot





TEST NUMBER: P534547

CATALOG NUMBER: S921DIP-W435-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	50	30	10	0	
RCR																						
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	96	96	96	93	
1	107	102	98	94	104	99	95	92	94	91	88	89	86	84	84	82	80	84	82	80	78	
2	97	89	82	76	94	86	80	75	82	77	72	78	73	70	74	70	67	74	70	67	64	
3	89	78	70	63	85	76	68	62	72	66	60	68	63	58	65	60	57	65	60	57	54	
4	81	69	60	53	78	67	59	53	64	57	51	61	55	50	58	53	48	58	53	48	46	
5	74	61	52	46	72	60	52	45	57	50	44	54	48	43	52	46	42	52	46	42	40	
6	69	55	46	40	66	54	46	39	51	44	39	49	43	38	47	41	37	47	41	37	35	
7	64	50	41	35	61	49	41	35	47	39	34	45	38	33	43	37	33	43	37	33	31	
8	59	46	37	31	57	45	37	31	43	36	30	41	35	30	39	34	29	39	34	29	27	
9	55	42	34	28	53	41	33	28	39	32	27	38	31	27	36	31	26	36	31	26	24	
10	52	39	31	25	50	38	30	25	36	29	25	35	29	24	34	28	24	34	28	24	22	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6796	6796	6796
5°	6756	6533	6510
10°	6660	6260	6159
15°	6550	5973	5841
20°	6420	5716	5566
25°	6267	5514	5288
30°	6130	5260	5051
35°	5981	5040	4810
40°	5863	4797	4617
45°	5736	4554	4441
50°	5590	4316	4224
55°	5428	4016	3955
60°	5201	3646	3640
65°	4887	3179	3225
70°	4426	2637	2466
75°	3722	1977	1700
80°	2847	1286	1398
85°	1422	872	981



TEST NUMBER: P534547

CATALOG NUMBER: S921DIP-W435-XX4XX-UDD-W-SC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.0	3.1
10°-20°	453.5	8.7
20°-30°	680.3	13.1
30°-40°	820.7	15.8
40°-50°	866.7	16.7
50°-60°	803.8	15.5
60°-70°	618.6	11.9
70°-80°	332.3	6.4
80°-90°	111.9	2.2
90°-100°	36.4	0.7
100°-110°	52.5	1.0
110°-120°	66.0	1.3
120°-130°	67.1	1.3
130°-140°	56.2	1.1
140°-150°	36.1	0.7
150°-160°	16.9	0.3
160°-170°	7.3	0.1
170°-180°	2.2	0.0
0°-30°	1294.9	25.0
0°-40°	2115.6	40.8
0°-60°	3786.1	73.0
0°-90°	4848.8	93.4
90°-120°	154.9	3.0
90°-150°	314.2	6.1
90°-180°	341.0	6.6
0°-180°	5189.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1711	1711	1711	1711	1711	
5°	1706	1706	1692	1700	1698	162
15°	1626	1623	1599	1596	1594	458
25°	1482	1484	1479	1471	1463	683
35°	1300	1316	1313	1311	1308	816
45°	1100	1116	1116	1140	1150	848
55°	870	881	892	926	942	775
65°	606	606	611	657	678	597
75°	312	310	310	299	299	335
85°	59	75	101	120	134	74
90°	3	21	35	45	48	4
95°	3	27	35	43	45	3
105°	11	51	56	59	59	10
115°	16	61	77	80	80	17
125°	21	48	96	99	99	19
135°	21	32	85	107	112	17
145°	21	27	56	88	96	13
155°	24	27	32	45	53	11
165°	24	24	27	27	27	7
175°	24	24	21	21	19	2
180°	21	21	21	21	21	

TEST NUMBER: P534547

CATALOG NUMBER: S921DIP-W435-XX4XX-UDD-W-SC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1711.1	1711.1	1711.1	1711.1	1711.1
2.5°	1711.1	1711.1	1700.4	1711.1	1711.1
5°	1705.8	1705.8	1692.4	1700.4	1697.7
7.5°	1692.4	1689.7	1676.4	1679.1	1676.4
10°	1673.7	1673.7	1655.0	1655.0	1649.7
12.5°	1652.4	1649.7	1628.3	1625.7	1620.3
15°	1625.7	1623.0	1599.0	1596.3	1593.6
17.5°	1593.6	1588.3	1569.6	1572.3	1566.9
20°	1561.6	1556.3	1537.6	1542.9	1534.9
22.5°	1521.6	1518.9	1513.6	1508.2	1500.2
25°	1481.5	1484.2	1478.9	1470.8	1462.8
27.5°	1438.8	1441.5	1436.1	1433.5	1428.1
30°	1396.1	1401.4	1396.1	1396.1	1390.8
32.5°	1353.4	1358.7	1353.4	1350.7	1350.7
35°	1300.0	1316.0	1313.4	1310.7	1308.0
37.5°	1254.6	1270.6	1265.3	1268.0	1268.0
40°	1203.9	1219.9	1217.3	1227.9	1230.6
42.5°	1150.5	1166.5	1166.5	1185.2	1190.6
45°	1099.8	1115.8	1115.8	1139.8	1150.5
47.5°	1043.7	1057.1	1065.1	1091.8	1102.5
50°	987.7	998.4	1011.7	1041.1	1054.4
52.5°	926.3	939.6	953.0	987.7	1001.0
55°	870.2	880.9	891.6	926.3	942.3
57.5°	803.5	816.8	824.8	859.6	883.6
60°	742.1	750.1	758.1	795.5	819.5
62.5°	675.4	680.7	683.4	728.7	755.4
65°	606.0	606.0	611.3	656.7	678.0
67.5°	531.2	533.9	536.6	573.9	579.3
70°	461.8	456.5	461.8	483.2	477.8
72.5°	389.7	381.7	392.4	384.4	373.7
75°	312.3	309.7	309.7	299.0	299.0
77.5°	248.3	242.9	237.6	237.6	242.9
80°	178.9	181.5	176.2	200.2	218.9
82.5°	114.8	120.1	138.8	173.5	178.9
85°	58.7	74.7	101.4	120.1	133.5
87.5°	21.4	45.4	58.7	74.7	82.8
90°	2.7	21.4	34.7	45.4	48.0
92.5°	2.7	24.0	32.0	40.0	42.7
95°	2.7	26.7	34.7	42.7	45.4
97.5°	5.3	32.0	40.0	45.4	48.0
100°	5.3	37.4	45.4	48.0	50.7
102.5°	8.0	42.7	50.7	53.4	53.4
105°	10.7	50.7	56.1	58.7	58.7
107.5°	10.7	56.1	61.4	64.1	64.1
110°	13.3	61.4	66.7	69.4	69.4



TEST NUMBER: P534547

CATALOG NUMBER: S921DIP-W435-XX4XX-UDD-W-SC

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	16.0	64.1	72.1	74.7	74.7
115°	16.0	61.4	77.4	80.1	80.1
117.5°	18.7	61.4	82.8	82.8	82.8
120°	18.7	58.7	88.1	88.1	88.1
122.5°	21.4	53.4	90.8	93.4	93.4
125°	21.4	48.0	96.1	98.8	98.8
127.5°	21.4	45.4	96.1	101.4	101.4
130°	21.4	40.0	93.4	104.1	104.1
132.5°	21.4	34.7	90.8	109.4	109.4
135°	21.4	32.0	85.4	106.8	112.1
137.5°	21.4	29.4	80.1	106.8	112.1
140°	21.4	29.4	72.1	101.4	109.4
142.5°	21.4	29.4	64.1	96.1	104.1
145°	21.4	26.7	56.1	88.1	96.1
147.5°	21.4	26.7	48.0	77.4	85.4
150°	21.4	26.7	40.0	66.7	77.4
152.5°	21.4	26.7	34.7	56.1	66.7
155°	24.0	26.7	32.0	45.4	53.4
157.5°	24.0	26.7	29.4	37.4	40.0
160°	24.0	24.0	26.7	32.0	32.0
162.5°	24.0	24.0	26.7	26.7	26.7
165°	24.0	24.0	26.7	26.7	26.7
167.5°	24.0	24.0	26.7	26.7	24.0
170°	24.0	24.0	24.0	24.0	24.0
172.5°	24.0	24.0	24.0	24.0	21.4
175°	24.0	24.0	21.4	21.4	18.7
177.5°	24.0	24.0	24.0	21.4	18.7
180°	21.4	21.4	21.4	21.4	21.4

(END OF REPORT)