

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: P534544

Luminaire Tested: **S921DIP-W430-XX4XX-UDD-W-SC**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534544
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-W430-XX4XX-UDD-W-SC
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE CURVILINEAR HOUSING WITH SOLID UPLIGHT COVER
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

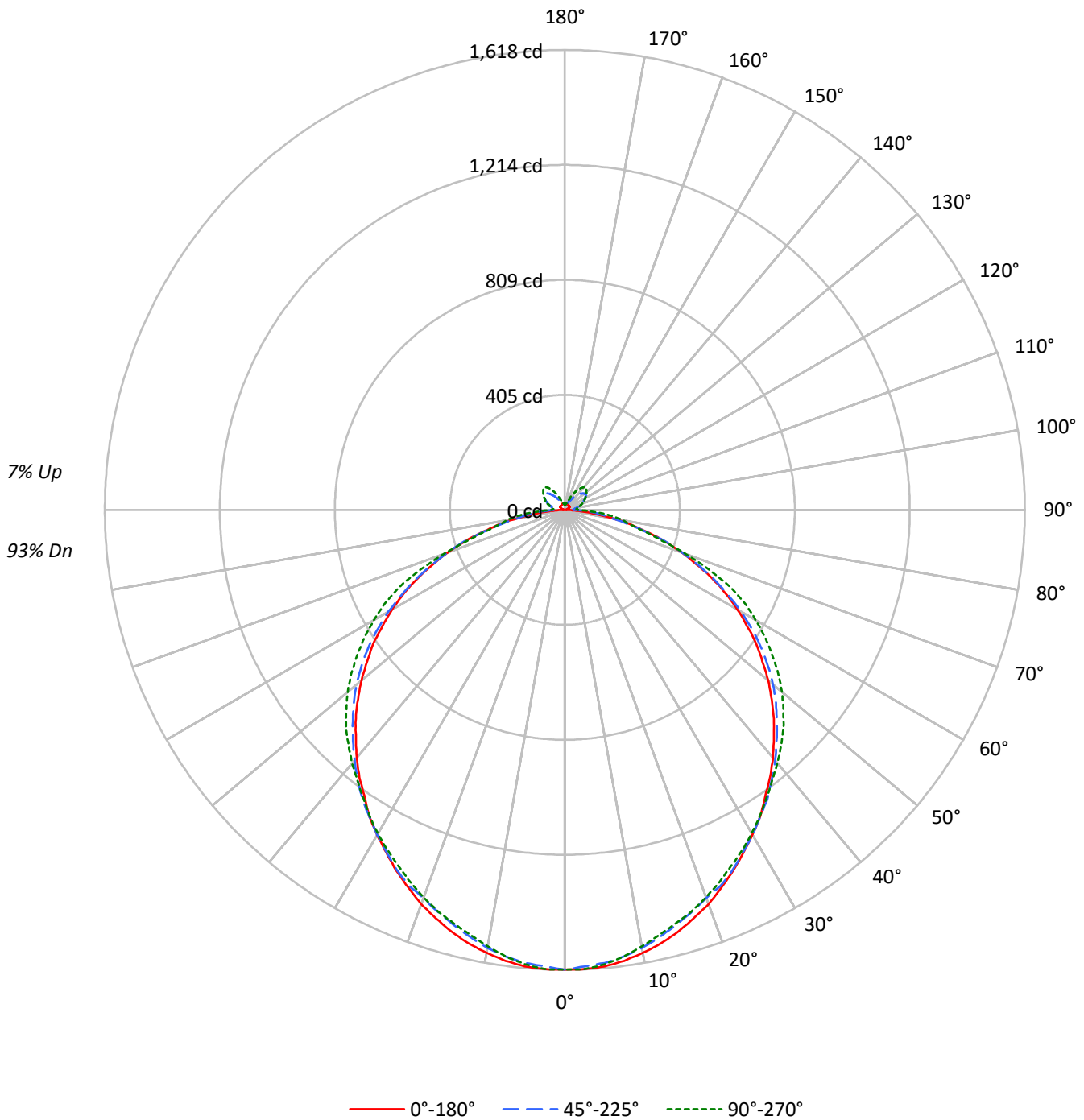
Lumens per Lamp: N/A
Luminaire Lumens: 4906.4 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: Direct

Input Watts (W): 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: P534544
CATALOG NUMBER: S921DIP-W430-XX4XX-UDD-W-SC

Luminous Intensity Polar Plot





TEST NUMBER: P534544

CATALOG NUMBER: S921DIP-W430-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	
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°	6426	6426	6426
5°	6387	6176	6155
10°	6297	5918	5823
15°	6192	5647	5522
20°	6070	5404	5262
25°	5926	5213	5000
30°	5796	4973	4776
35°	5654	4765	4547
40°	5543	4535	4366
45°	5423	4305	4199
50°	5285	4080	3994
55°	5133	3797	3739
60°	4917	3447	3442
65°	4621	3006	3049
70°	4184	2493	2332
75°	3519	1869	1608
80°	2691	1216	1322
85°	1345	824	927



TEST NUMBER: P534544
 CATALOG NUMBER: S921DIP-W430-XX4XX-UDD-W-SC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.2	3.1
10°-20°	428.8	8.7
20°-30°	643.2	13.1
30°-40°	776.0	15.8
40°-50°	819.4	16.7
50°-60°	759.9	15.5
60°-70°	584.8	11.9
70°-80°	314.2	6.4
80°-90°	105.8	2.2
90°-100°	34.4	0.7
100°-110°	49.7	1.0
110°-120°	62.4	1.3
120°-130°	63.4	1.3
130°-140°	53.1	1.1
140°-150°	34.1	0.7
150°-160°	16.0	0.3
160°-170°	6.9	0.1
170°-180°	2.1	0.0
0°-30°	1224.2	25.0
0°-40°	2000.2	40.8
0°-60°	3579.5	73.0
0°-90°	4584.3	93.4
90°-120°	146.4	3.0
90°-150°	297.1	6.1
90°-180°	322.0	6.6
0°-180°	4906.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1618	1618	1618	1618	1618	
5°	1613	1613	1600	1608	1605	153
15°	1537	1534	1512	1509	1507	433
25°	1401	1403	1398	1391	1383	646
35°	1229	1244	1242	1239	1237	771
45°	1040	1055	1055	1078	1088	801
55°	823	833	843	876	891	733
65°	573	573	578	621	641	565
75°	295	293	293	283	283	317
85°	56	71	96	114	126	70
90°	2	20	33	43	45	4
95°	2	25	33	40	43	3
105°	10	48	53	56	56	10
115°	15	58	73	76	76	16
125°	20	45	91	93	93	18
135°	20	30	81	101	106	16
145°	20	25	53	83	91	13
155°	23	25	30	43	50	10
165°	23	23	25	25	25	6
175°	23	23	20	20	18	2
180°	20	20	20	20	20	



TEST NUMBER: P534544

CATALOG NUMBER: S921DIP-W430-XX4XX-UDD-W-SC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1617.8	1617.8	1617.8	1617.8	1617.8
2.5°	1617.8	1617.8	1607.7	1617.8	1617.8
5°	1612.7	1612.7	1600.1	1607.7	1605.1
7.5°	1600.1	1597.6	1584.9	1587.5	1584.9
10°	1582.4	1582.4	1564.8	1564.8	1559.7
12.5°	1562.2	1559.7	1539.5	1537.0	1531.9
15°	1537.0	1534.5	1511.8	1509.2	1506.7
17.5°	1506.7	1501.7	1484.0	1486.5	1481.5
20°	1476.4	1471.4	1453.7	1458.8	1451.2
22.5°	1438.6	1436.0	1431.0	1425.9	1418.4
25°	1400.7	1403.2	1398.2	1390.6	1383.0
27.5°	1360.3	1362.8	1357.8	1355.3	1350.2
30°	1319.9	1325.0	1319.9	1319.9	1314.9
32.5°	1279.6	1284.6	1279.6	1277.0	1277.0
35°	1229.1	1244.2	1241.7	1239.2	1236.7
37.5°	1186.2	1201.3	1196.3	1198.8	1198.8
40°	1138.2	1153.4	1150.8	1160.9	1163.5
42.5°	1087.8	1102.9	1102.9	1120.6	1125.6
45°	1039.8	1054.9	1054.9	1077.7	1087.8
47.5°	986.8	999.4	1007.0	1032.2	1042.3
50°	933.8	943.9	956.5	984.3	996.9
52.5°	875.8	888.4	901.0	933.8	946.4
55°	822.8	832.9	842.9	875.8	890.9
57.5°	759.7	772.3	779.9	812.7	835.4
60°	701.6	709.2	716.8	752.1	774.8
62.5°	638.5	643.6	646.1	689.0	714.2
65°	572.9	572.9	577.9	620.9	641.0
67.5°	502.2	504.8	507.3	542.6	547.7
70°	436.6	431.6	436.6	456.8	451.8
72.5°	368.5	360.9	371.0	363.4	353.3
75°	295.3	292.8	292.8	282.7	282.7
77.5°	234.7	229.7	224.6	224.6	229.7
80°	169.1	171.6	166.6	189.3	207.0
82.5°	108.5	113.6	131.2	164.0	169.1
85°	55.5	70.7	95.9	113.6	126.2
87.5°	20.2	42.9	55.5	70.7	78.2
90°	2.5	20.2	32.8	42.9	45.4
92.5°	2.5	22.7	30.3	37.9	40.4
95°	2.5	25.2	32.8	40.4	42.9
97.5°	5.0	30.3	37.9	42.9	45.4
100°	5.0	35.3	42.9	45.4	48.0
102.5°	7.6	40.4	48.0	50.5	50.5
105°	10.1	48.0	53.0	55.5	55.5
107.5°	10.1	53.0	58.0	60.6	60.6
110°	12.6	58.0	63.1	65.6	65.6



TEST NUMBER: P534544

CATALOG NUMBER: S921DIP-W430-XX4XX-UDD-W-SC

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	15.1	60.6	68.1	70.7	70.7
115°	15.1	58.0	73.2	75.7	75.7
117.5°	17.7	58.0	78.2	78.2	78.2
120°	17.7	55.5	83.3	83.3	83.3
122.5°	20.2	50.5	85.8	88.3	88.3
125°	20.2	45.4	90.9	93.4	93.4
127.5°	20.2	42.9	90.9	95.9	95.9
130°	20.2	37.9	88.3	98.4	98.4
132.5°	20.2	32.8	85.8	103.5	103.5
135°	20.2	30.3	80.8	101.0	106.0
137.5°	20.2	27.8	75.7	101.0	106.0
140°	20.2	27.8	68.1	95.9	103.5
142.5°	20.2	27.8	60.6	90.9	98.4
145°	20.2	25.2	53.0	83.3	90.9
147.5°	20.2	25.2	45.4	73.2	80.8
150°	20.2	25.2	37.9	63.1	73.2
152.5°	20.2	25.2	32.8	53.0	63.1
155°	22.7	25.2	30.3	42.9	50.5
157.5°	22.7	25.2	27.8	35.3	37.9
160°	22.7	22.7	25.2	30.3	30.3
162.5°	22.7	22.7	25.2	25.2	25.2
165°	22.7	22.7	25.2	25.2	25.2
167.5°	22.7	22.7	25.2	25.2	22.7
170°	22.7	22.7	22.7	22.7	22.7
172.5°	22.7	22.7	22.7	22.7	20.2
175°	22.7	22.7	20.2	20.2	17.7
177.5°	22.7	22.7	22.7	20.2	17.7
180°	20.2	20.2	20.2	20.2	20.2

(END OF REPORT)