

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: P534553

Luminaire Tested: **S921DIP-W530-XX4XX-UDD-W-SC**

Issue Date: 6/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534553  
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-W530-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**

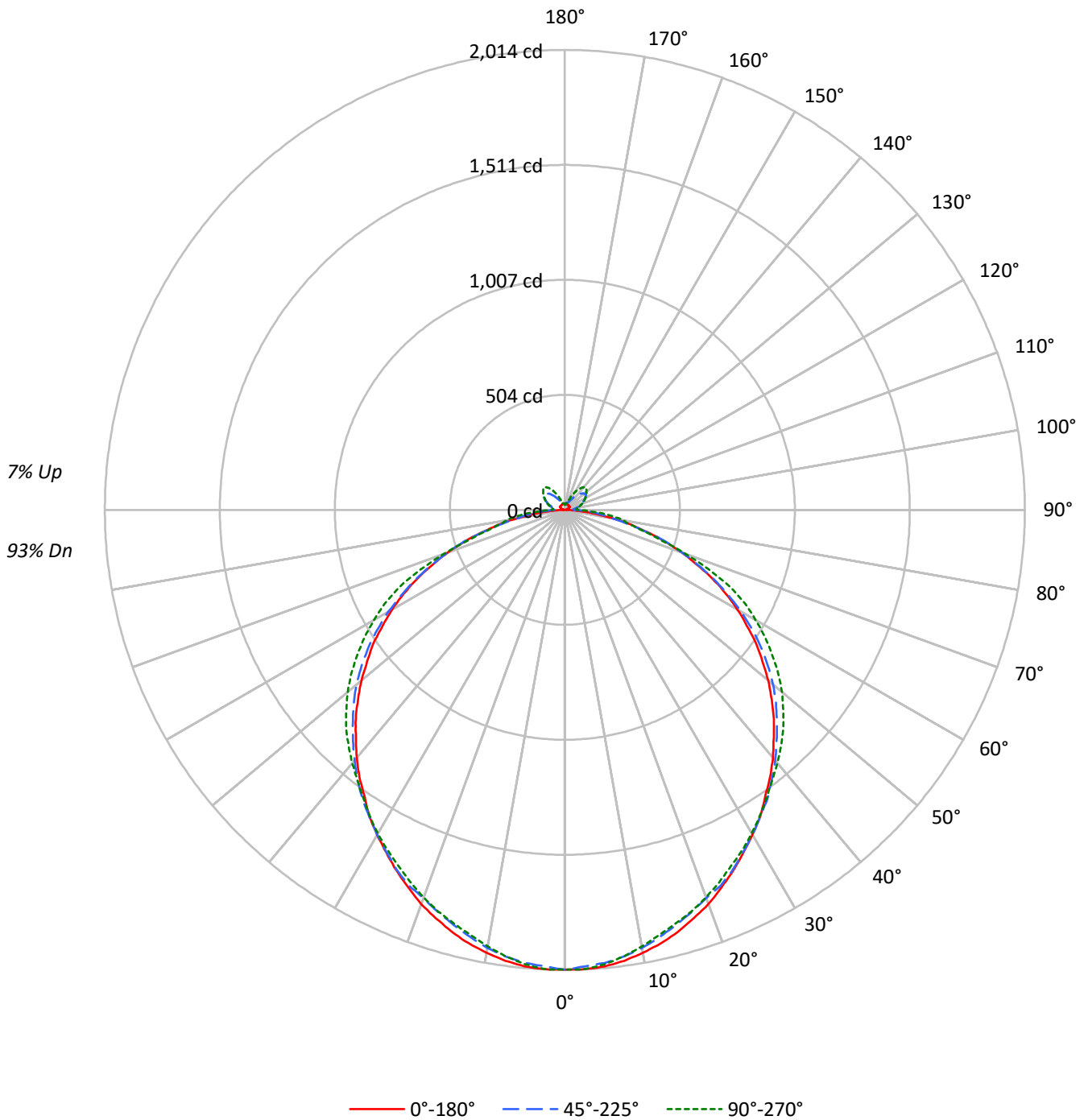
Lumens per Lamp: N/A  
Luminaire Lumens: 6106.8 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')  
CIE Type: Direct

Input Watts (W): 68  
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	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°	7998	7998	7998
5°	7950	7688	7661
10°	7837	7366	7248
15°	7707	7029	6873
20°	7555	6727	6550
25°	7375	6488	6223
30°	7214	6190	5944
35°	7038	5931	5660
40°	6899	5645	5433
45°	6749	5359	5226
50°	6578	5079	4971
55°	6388	4726	4654
60°	6120	4290	4284
65°	5751	3742	3795
70°	5208	3103	2902
75°	4380	2326	2001
80°	3350	1513	1645
85°	1674	1026	1154



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.4	3.1
10°-20°	533.7	8.7
20°-30°	800.6	13.1
30°-40°	965.8	15.8
40°-50°	1019.9	16.7
50°-60°	945.8	15.5
60°-70°	727.9	11.9
70°-80°	391.0	6.4
80°-90°	131.7	2.2
90°-100°	42.8	0.7
100°-110°	61.8	1.0
110°-120°	77.6	1.3
120°-130°	78.9	1.3
130°-140°	66.1	1.1
140°-150°	42.5	0.7
150°-160°	19.9	0.3
160°-170°	8.6	0.1
170°-180°	2.6	0.0
0°-30°	1523.8	25.0
0°-40°	2489.6	40.8
0°-60°	4455.3	73.0
0°-90°	5705.9	93.4
90°-120°	182.2	3.0
90°-150°	369.7	6.1
90°-180°	401.0	6.6
0°-180°	6106.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2014	2014	2014	2014	2014	
5°	2007	2007	1992	2001	1998	190
15°	1913	1910	1882	1878	1875	539
25°	1743	1746	1740	1731	1721	804
35°	1530	1549	1546	1542	1539	960
45°	1294	1313	1313	1341	1354	997
55°	1024	1037	1049	1090	1109	912
65°	713	713	719	773	798	703
75°	368	364	364	352	352	394
85°	69	88	119	141	157	88
90°	3	25	41	53	56	5
95°	3	31	41	50	53	4
105°	13	60	66	69	69	12
115°	19	72	91	94	94	19
125°	25	56	113	116	116	22
135°	25	38	100	126	132	19
145°	25	31	66	104	113	16
155°	28	31	38	53	63	12
165°	28	28	31	31	31	8
175°	28	28	25	25	22	3
180°	25	25	25	25	25	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2013.6	2013.6	2013.6	2013.6	2013.6
2.5°	2013.6	2013.6	2001.0	2013.6	2013.6
5°	2007.3	2007.3	1991.6	2001.0	1997.9
7.5°	1991.6	1988.4	1972.7	1975.9	1972.7
10°	1969.6	1969.6	1947.6	1947.6	1941.3
12.5°	1944.4	1941.3	1916.2	1913.0	1906.8
15°	1913.0	1909.9	1881.6	1878.5	1875.3
17.5°	1875.3	1869.1	1847.1	1850.2	1843.9
20°	1837.6	1831.4	1809.4	1815.7	1806.2
22.5°	1790.5	1787.4	1781.1	1774.8	1765.4
25°	1743.4	1746.5	1740.3	1730.8	1721.4
27.5°	1693.1	1696.3	1690.0	1686.9	1680.6
30°	1642.9	1649.2	1642.9	1642.9	1636.6
32.5°	1592.6	1598.9	1592.6	1589.5	1589.5
35°	1529.8	1548.6	1545.5	1542.4	1539.2
37.5°	1476.4	1495.2	1489.0	1492.1	1492.1
40°	1416.7	1435.6	1432.4	1445.0	1448.1
42.5°	1353.9	1372.7	1372.7	1394.7	1401.0
45°	1294.2	1313.1	1313.1	1341.3	1353.9
47.5°	1228.2	1243.9	1253.4	1284.8	1297.3
50°	1162.3	1174.8	1190.5	1225.1	1240.8
52.5°	1090.0	1105.7	1121.4	1162.3	1178.0
55°	1024.1	1036.6	1049.2	1090.0	1108.9
57.5°	945.5	961.2	970.7	1011.5	1039.8
60°	873.3	882.7	892.1	936.1	964.4
62.5°	794.7	801.0	804.2	857.6	889.0
65°	713.1	713.1	719.4	772.8	797.9
67.5°	625.1	628.3	631.4	675.4	681.7
70°	543.4	537.2	543.4	568.6	562.3
72.5°	458.6	449.2	461.8	452.3	439.8
75°	367.5	364.4	364.4	351.8	351.8
77.5°	292.1	285.9	279.6	279.6	285.9
80°	210.5	213.6	207.3	235.6	257.6
82.5°	135.1	141.4	163.3	204.2	210.5
85°	69.1	88.0	119.4	141.4	157.1
87.5°	25.1	53.4	69.1	88.0	97.4
90°	3.1	25.1	40.8	53.4	56.5
92.5°	3.1	28.3	37.7	47.1	50.3
95°	3.1	31.4	40.8	50.3	53.4
97.5°	6.3	37.7	47.1	53.4	56.5
100°	6.3	44.0	53.4	56.5	59.7
102.5°	9.4	50.3	59.7	62.8	62.8
105°	12.6	59.7	66.0	69.1	69.1
107.5°	12.6	66.0	72.2	75.4	75.4
110°	15.7	72.2	78.5	81.7	81.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	18.8	75.4	84.8	88.0	88.0
115°	18.8	72.2	91.1	94.2	94.2
117.5°	22.0	72.2	97.4	97.4	97.4
120°	22.0	69.1	103.7	103.7	103.7
122.5°	25.1	62.8	106.8	109.9	109.9
125°	25.1	56.5	113.1	116.2	116.2
127.5°	25.1	53.4	113.1	119.4	119.4
130°	25.1	47.1	109.9	122.5	122.5
132.5°	25.1	40.8	106.8	128.8	128.8
135°	25.1	37.7	100.5	125.7	131.9
137.5°	25.1	34.6	94.2	125.7	131.9
140°	25.1	34.6	84.8	119.4	128.8
142.5°	25.1	34.6	75.4	113.1	122.5
145°	25.1	31.4	66.0	103.7	113.1
147.5°	25.1	31.4	56.5	91.1	100.5
150°	25.1	31.4	47.1	78.5	91.1
152.5°	25.1	31.4	40.8	66.0	78.5
155°	28.3	31.4	37.7	53.4	62.8
157.5°	28.3	31.4	34.6	44.0	47.1
160°	28.3	28.3	31.4	37.7	37.7
162.5°	28.3	28.3	31.4	31.4	31.4
165°	28.3	28.3	31.4	31.4	31.4
167.5°	28.3	28.3	31.4	31.4	28.3
170°	28.3	28.3	28.3	28.3	28.3
172.5°	28.3	28.3	28.3	28.3	25.1
175°	28.3	28.3	25.1	25.1	22.0
177.5°	28.3	28.3	28.3	25.1	22.0
180°	25.1	25.1	25.1	25.1	25.1

(END OF REPORT)