

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: P534541

Luminaire Tested: **S921DIP-W340-XX4XX-UDD-W-SC**

Issue Date: 6/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534541  
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-W340-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**

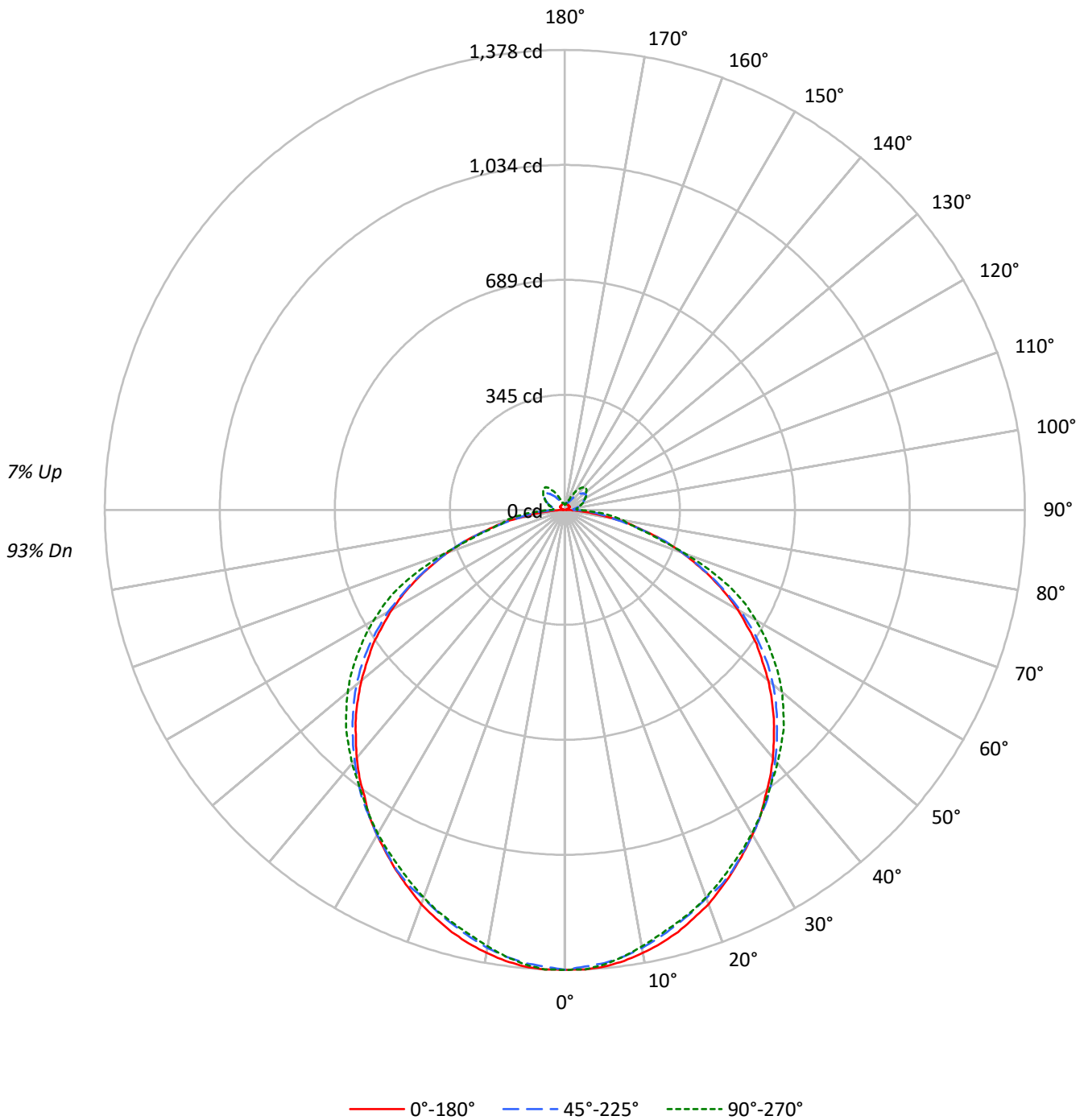
Lumens per Lamp: N/A  
Luminaire Lumens: 4179.3 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')  
CIE Type: Direct

Input Watts (W): 38.5  
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	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	65			
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°	5474	5474	5474
5°	5441	5261	5243
10°	5364	5041	4960
15°	5275	4810	4704
20°	5171	4604	4483
25°	5048	4440	4259
30°	4937	4236	4068
35°	4817	4059	3873
40°	4722	3863	3719
45°	4619	3667	3577
50°	4501	3476	3402
55°	4372	3234	3185
60°	4189	2937	2932
65°	3936	2560	2597
70°	3564	2123	1986
75°	2997	1592	1369
80°	2292	1036	1126
85°	1146	702	790



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.6	3.1
10°-20°	365.3	8.7
20°-30°	547.9	13.1
30°-40°	661.0	15.8
40°-50°	698.0	16.7
50°-60°	647.3	15.5
60°-70°	498.2	11.9
70°-80°	267.6	6.4
80°-90°	90.1	2.2
90°-100°	29.3	0.7
100°-110°	42.3	1.0
110°-120°	53.1	1.3
120°-130°	54.0	1.3
130°-140°	45.2	1.1
140°-150°	29.1	0.7
150°-160°	13.6	0.3
160°-170°	5.9	0.1
170°-180°	1.8	0.0
0°-30°	1042.9	25.0
0°-40°	1703.9	40.8
0°-60°	3049.2	73.0
0°-90°	3905.0	93.4
90°-120°	124.7	3.0
90°-150°	252.9	6.1
90°-180°	274.0	6.6
0°-180°	4179.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1378	1378	1378	1378	1378	
5°	1374	1374	1363	1370	1367	130
15°	1309	1307	1288	1286	1284	369
25°	1193	1195	1191	1185	1178	550
35°	1047	1060	1058	1056	1053	657
45°	886	899	899	918	927	683
55°	701	710	718	746	759	624
65°	488	488	492	529	546	481
75°	252	249	249	241	241	270
85°	47	60	82	97	108	60
90°	2	17	28	36	39	3
95°	2	22	28	34	36	3
105°	9	41	45	47	47	8
115°	13	49	62	64	64	13
125°	17	39	77	80	80	15
135°	17	26	69	86	90	13
145°	17	22	45	71	77	11
155°	19	22	26	36	43	9
165°	19	19	22	22	22	5
175°	19	19	17	17	15	2
180°	17	17	17	17	17	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1378.1	1378.1	1378.1	1378.1	1378.1
2.5°	1378.1	1378.1	1369.5	1378.1	1378.1
5°	1373.8	1373.8	1363.0	1369.5	1367.3
7.5°	1363.0	1360.9	1350.1	1352.3	1350.1
10°	1348.0	1348.0	1332.9	1332.9	1328.6
12.5°	1330.8	1328.6	1311.4	1309.3	1305.0
15°	1309.3	1307.1	1287.8	1285.6	1283.5
17.5°	1283.5	1279.2	1264.1	1266.3	1262.0
20°	1257.7	1253.4	1238.3	1242.6	1236.2
22.5°	1225.4	1223.3	1219.0	1214.7	1208.2
25°	1193.2	1195.3	1191.0	1184.6	1178.1
27.5°	1158.8	1160.9	1156.6	1154.5	1150.2
30°	1124.4	1128.7	1124.4	1124.4	1120.1
32.5°	1090.0	1094.3	1090.0	1087.8	1087.8
35°	1047.0	1059.9	1057.7	1055.6	1053.4
37.5°	1010.4	1023.3	1019.0	1021.2	1021.2
40°	969.6	982.5	980.3	988.9	991.1
42.5°	926.6	939.5	939.5	954.5	958.8
45°	885.7	898.6	898.6	918.0	926.6
47.5°	840.6	851.3	857.8	879.3	887.9
50°	795.4	804.0	814.8	838.4	849.2
52.5°	746.0	756.7	767.5	795.4	806.2
55°	700.9	709.5	718.0	746.0	758.9
57.5°	647.1	657.9	664.3	692.3	711.6
60°	597.7	604.1	610.6	640.7	660.0
62.5°	543.9	548.2	550.4	586.9	608.4
65°	488.0	488.0	492.3	528.9	546.1
67.5°	427.8	430.0	432.1	462.2	466.5
70°	371.9	367.6	371.9	389.1	384.8
72.5°	313.9	307.4	316.0	309.6	301.0
75°	251.5	249.4	249.4	240.8	240.8
77.5°	199.9	195.6	191.3	191.3	195.6
80°	144.0	146.2	141.9	161.2	176.3
82.5°	92.4	96.7	111.8	139.7	144.0
85°	47.3	60.2	81.7	96.7	107.5
87.5°	17.2	36.5	47.3	60.2	66.6
90°	2.1	17.2	27.9	36.5	38.7
92.5°	2.1	19.3	25.8	32.2	34.4
95°	2.1	21.5	27.9	34.4	36.5
97.5°	4.3	25.8	32.2	36.5	38.7
100°	4.3	30.1	36.5	38.7	40.8
102.5°	6.4	34.4	40.8	43.0	43.0
105°	8.6	40.8	45.1	47.3	47.3
107.5°	8.6	45.1	49.4	51.6	51.6
110°	10.7	49.4	53.7	55.9	55.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	12.9	51.6	58.0	60.2	60.2
115°	12.9	49.4	62.3	64.5	64.5
117.5°	15.0	49.4	66.6	66.6	66.6
120°	15.0	47.3	70.9	70.9	70.9
122.5°	17.2	43.0	73.1	75.2	75.2
125°	17.2	38.7	77.4	79.5	79.5
127.5°	17.2	36.5	77.4	81.7	81.7
130°	17.2	32.2	75.2	83.8	83.8
132.5°	17.2	27.9	73.1	88.1	88.1
135°	17.2	25.8	68.8	86.0	90.3
137.5°	17.2	23.6	64.5	86.0	90.3
140°	17.2	23.6	58.0	81.7	88.1
142.5°	17.2	23.6	51.6	77.4	83.8
145°	17.2	21.5	45.1	70.9	77.4
147.5°	17.2	21.5	38.7	62.3	68.8
150°	17.2	21.5	32.2	53.7	62.3
152.5°	17.2	21.5	27.9	45.1	53.7
155°	19.3	21.5	25.8	36.5	43.0
157.5°	19.3	21.5	23.6	30.1	32.2
160°	19.3	19.3	21.5	25.8	25.8
162.5°	19.3	19.3	21.5	21.5	21.5
165°	19.3	19.3	21.5	21.5	21.5
167.5°	19.3	19.3	21.5	21.5	19.3
170°	19.3	19.3	19.3	19.3	19.3
172.5°	19.3	19.3	19.3	19.3	17.2
175°	19.3	19.3	17.2	17.2	15.0
177.5°	19.3	19.3	19.3	17.2	15.0
180°	17.2	17.2	17.2	17.2	17.2

(END OF REPORT)