

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: P534554

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

Issue Date: 6/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534554  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35510-R2)  
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  
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE  
WHITE CURVILINEAR HOUSING  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

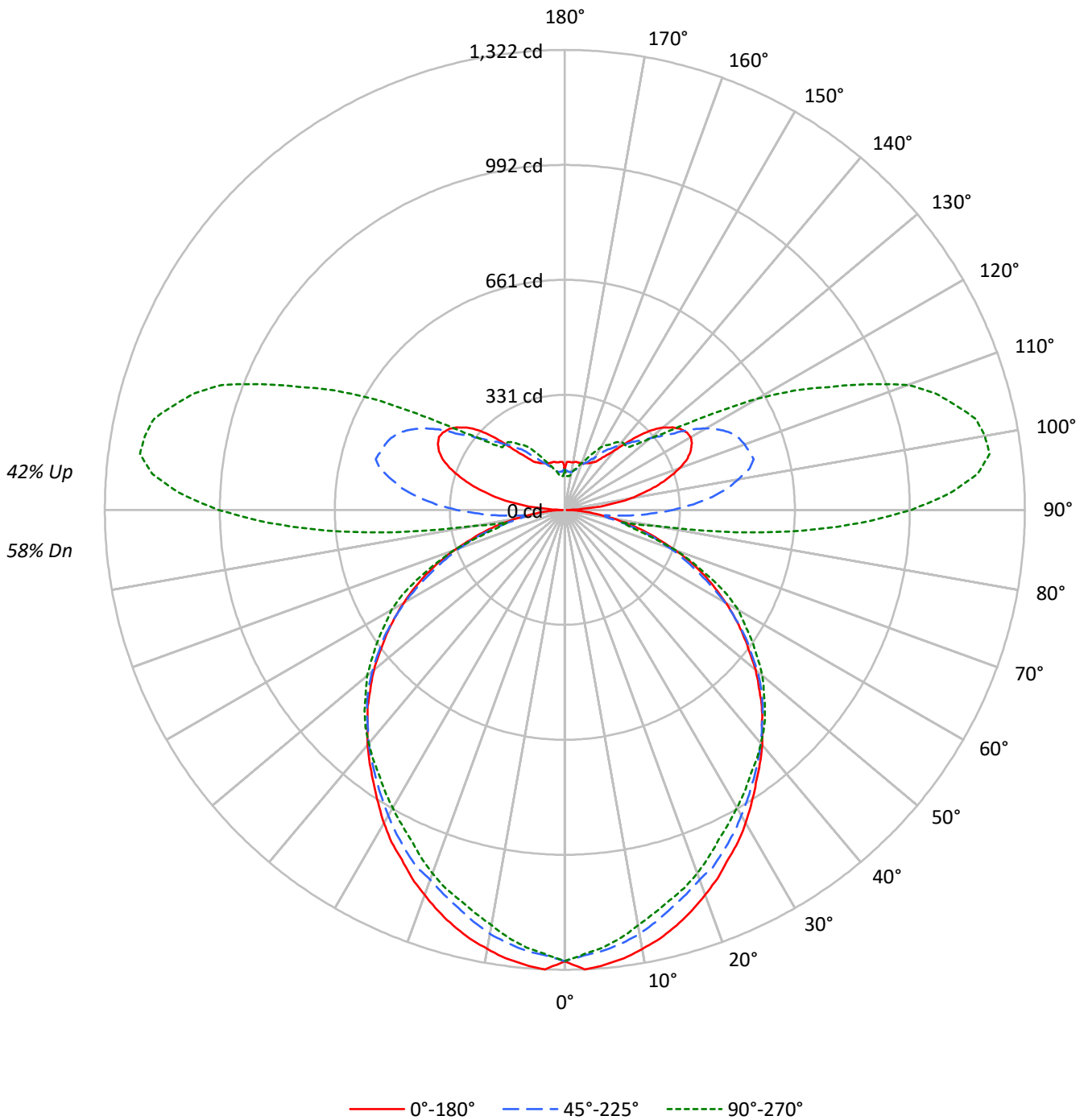
Lumens per Lamp: N/A  
Luminaire Lumens: 6385.8 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.14 / 1.32  
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')  
CIE Type: General Diffuse

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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64	58
1	98	93	89	85	91	87	83	79	75	72	69	64	62	60	54	52	51	46
2	89	81	74	69	83	76	70	65	65	61	57	56	52	49	47	45	42	38
3	81	71	63	57	75	66	59	54	57	52	47	49	45	42	42	39	36	32
4	74	63	54	48	69	59	51	45	51	45	40	44	39	35	37	34	31	27
5	68	56	47	41	63	52	45	39	46	39	35	39	34	31	33	30	27	24
6	63	50	42	36	58	47	39	34	41	35	30	35	31	27	30	26	23	21
7	58	45	37	31	54	42	35	30	37	31	27	32	27	24	28	24	21	18
8	54	41	33	27	50	39	31	26	34	28	24	30	25	21	25	21	19	16
9	50	37	30	24	47	35	28	23	31	25	21	27	22	19	23	20	17	15
10	47	34	27	22	44	32	26	21	29	23	19	25	20	17	22	18	15	13

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

	0°	45°	90°
0°	5153	5153	5153
5°	5200	4911	4842
10°	5100	4681	4527
15°	4986	4424	4260
20°	4843	4204	4032
25°	4691	4029	3782
30°	4566	3823	3594
35°	4408	3628	3419
40°	4299	3454	3288
45°	4177	3282	3141
50°	4053	3082	2970
55°	3899	2844	2755
60°	3742	2553	2554
65°	3547	2189	2196
70°	3221	1829	1751
75°	2808	1383	1143
80°	2200	871	1686
85°	1219	1620	5055



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.3	1.9
10°-20°	337.3	5.3
20°-30°	498.6	7.8
30°-40°	594.5	9.3
40°-50°	623.3	9.8
50°-60°	570.3	8.9
60°-70°	435.0	6.8
70°-80°	237.7	3.7
80°-90°	311.3	4.9
90°-100°	586.5	9.2
100°-110°	670.1	10.5
110°-120°	561.9	8.8
120°-130°	369.5	5.8
130°-140°	216.3	3.4
140°-150°	131.3	2.1
150°-160°	73.2	1.1
160°-170°	36.4	0.6
170°-180°	11.1	0.2
0°-30°	957.2	15.0
0°-40°	1551.7	24.3
0°-60°	2745.4	43.0
0°-90°	3729.4	58.4
90°-120°	1818.6	28.5
90°-150°	2535.7	39.7
90°-180°	2656.0	41.6
0°-180°	6385.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1297	1297	1297	1297	1297	
5°	1313	1304	1272	1269	1263	124
15°	1238	1225	1184	1169	1162	349
25°	1109	1106	1081	1062	1046	512
35°	958	968	946	936	930	601
45°	801	810	804	814	814	617
55°	625	634	631	647	656	559
65°	440	437	421	456	462	433
75°	236	223	217	207	201	248
85°	50	66	188	509	688	60
90°	6	113	311	766	996	11
95°	94	195	424	927	1190	97
105°	280	330	562	955	1162	292
115°	399	408	525	726	836	391
125°	405	405	383	412	434	360
135°	302	283	276	261	254	233
145°	179	185	210	229	229	116
155°	148	144	151	166	173	69
165°	141	132	119	122	122	40
175°	138	132	110	100	97	13
180°	116	116	116	116	116	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1297.3	1297.3	1297.3	1297.3	1297.3
2.5°	1322.5	1313.1	1281.6	1281.6	1278.5
5°	1313.1	1303.6	1272.2	1269.1	1262.8
7.5°	1300.5	1287.9	1256.5	1250.2	1240.8
10°	1281.6	1272.2	1237.7	1225.1	1212.5
12.5°	1262.8	1250.2	1212.5	1200.0	1187.4
15°	1237.7	1225.1	1184.3	1168.6	1162.3
17.5°	1209.4	1196.8	1159.1	1152.8	1140.3
20°	1178.0	1165.4	1130.9	1124.6	1112.0
22.5°	1146.6	1137.1	1112.0	1093.2	1080.6
25°	1108.9	1105.7	1080.6	1061.8	1046.0
27.5°	1077.5	1071.2	1049.2	1030.3	1017.8
30°	1039.8	1036.6	1014.6	998.9	989.5
32.5°	998.9	1002.1	980.1	970.7	961.2
35°	958.1	967.5	945.5	936.1	929.8
37.5°	920.4	933.0	911.0	907.8	904.7
40°	882.7	892.1	876.4	876.4	876.4
42.5°	838.7	851.3	838.7	848.1	848.1
45°	801.0	810.5	804.2	813.6	813.6
47.5°	757.0	766.5	766.5	775.9	775.9
50°	716.2	725.6	722.5	735.1	741.3
52.5°	669.1	678.5	675.4	694.2	697.4
55°	625.1	634.5	631.4	647.1	656.5
57.5°	581.1	590.6	581.1	600.0	612.5
60°	534.0	543.4	530.9	549.7	574.9
62.5°	486.9	490.0	474.3	505.7	524.6
65°	439.8	436.6	420.9	455.5	461.8
67.5°	389.5	383.2	370.7	395.8	398.9
70°	336.1	329.8	320.4	333.0	339.3
72.5°	282.7	276.4	270.2	273.3	260.7
75°	235.6	223.0	216.7	207.3	201.0
77.5°	185.3	175.9	163.3	160.2	169.6
80°	138.2	138.2	119.4	166.5	263.9
82.5°	91.1	97.4	116.2	361.2	496.3
85°	50.3	66.0	188.5	508.9	687.9
87.5°	22.0	78.5	248.2	637.7	851.3
90°	6.3	113.1	311.0	766.5	995.8
92.5°	44.0	157.1	370.7	860.7	1108.9
95°	94.2	194.8	424.1	926.7	1190.5
97.5°	144.5	241.9	471.2	970.7	1231.4
100°	194.8	273.3	505.7	980.1	1225.1
102.5°	235.6	304.7	543.4	973.8	1209.4
105°	279.6	329.8	562.3	954.9	1162.3
107.5°	317.3	351.8	556.0	926.7	1115.2
110°	351.8	364.4	549.7	860.7	1049.2

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	<i>380.1</i>	386.4	540.3	791.6	942.4
115°	<i>398.9</i>	408.4	524.6	725.6	835.6
117.5°	<i>411.5</i>	420.9	499.5	653.4	741.3
120°	<i>417.8</i>	424.1	468.1	584.3	637.7
122.5°	<i>414.6</i>	420.9	430.4	499.5	527.7
125°	<i>405.2</i>	405.2	383.2	411.5	433.5
127.5°	<i>389.5</i>	386.4	348.7	348.7	364.4
130°	<i>367.5</i>	355.0	320.4	301.6	317.3
132.5°	<i>339.3</i>	317.3	295.3	267.0	276.4
135°	<i>301.6</i>	282.7	276.4	260.7	254.4
137.5°	<i>260.7</i>	251.3	254.4	260.7	254.4
140°	<i>223.0</i>	226.2	241.9	254.4	254.4
142.5°	<i>197.9</i>	207.3	223.0	238.7	245.0
145°	<i>179.1</i>	185.3	210.5	229.3	229.3
147.5°	<i>163.3</i>	169.6	191.6	213.6	219.9
150°	<i>157.1</i>	163.3	172.8	197.9	207.3
152.5°	<i>150.8</i>	150.8	163.3	185.3	188.5
155°	<i>147.6</i>	144.5	150.8	166.5	172.8
157.5°	<i>144.5</i>	141.4	144.5	150.8	153.9
160°	<i>141.4</i>	135.1	135.1	141.4	144.5
162.5°	<i>141.4</i>	131.9	128.8	135.1	131.9
165°	<i>141.4</i>	131.9	119.4	122.5	122.5
167.5°	<i>141.4</i>	128.8	116.2	113.1	116.2
170°	<i>138.2</i>	128.8	109.9	109.9	103.7
172.5°	<i>138.2</i>	128.8	109.9	103.7	97.4
175°	<i>138.2</i>	131.9	109.9	100.5	97.4
177.5°	<i>138.2</i>	131.9	113.1	103.7	97.4
180°	<i>116.2</i>	116.2	116.2	116.2	116.2

(END OF REPORT)