

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: P534545

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

Issue Date: 6/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534545  
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-W430-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**

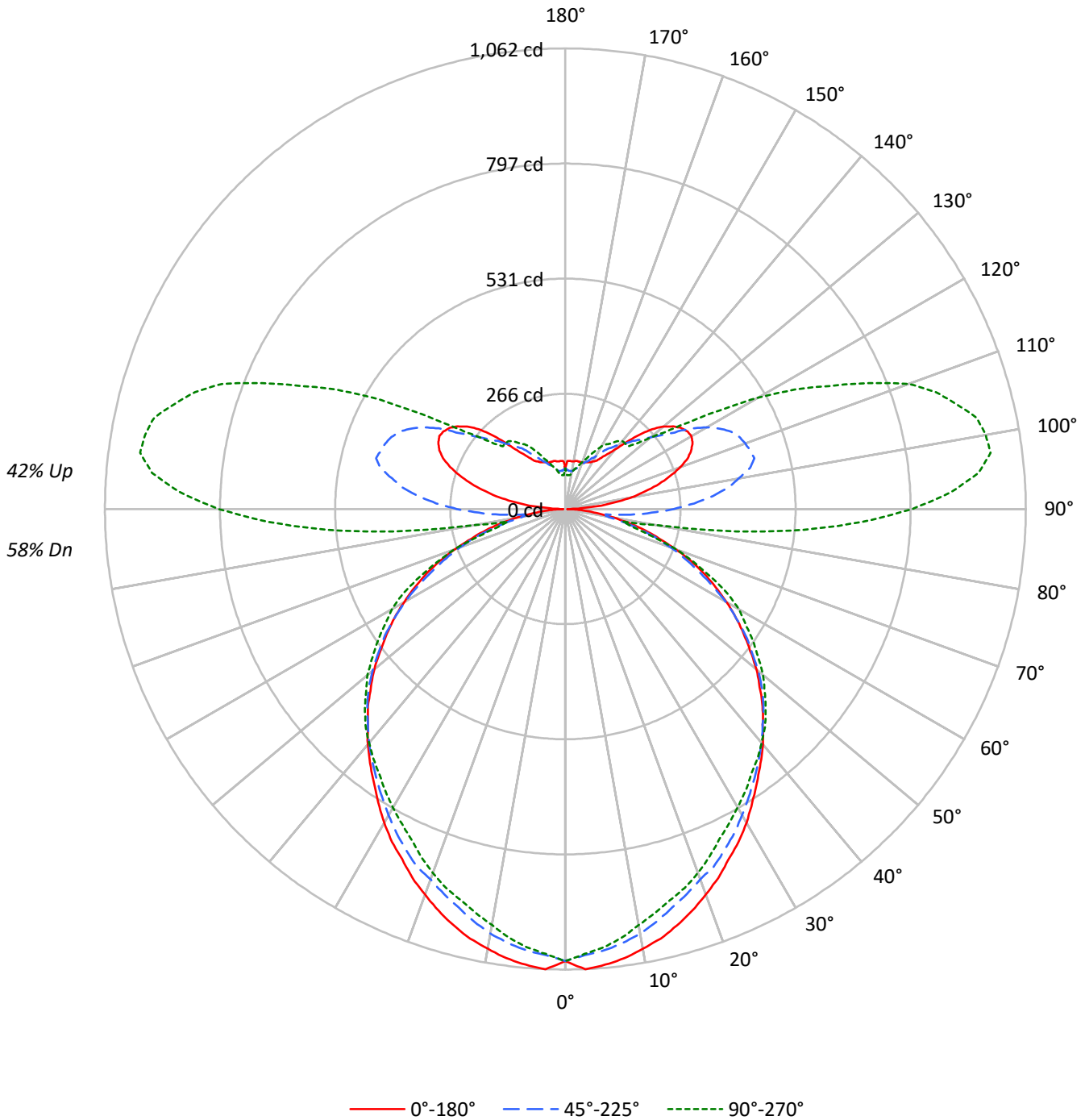
Lumens per Lamp: N/A  
Luminaire Lumens: 5130.5 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.14 / 1.32  
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')  
CIE Type: General Diffuse

Input Watts (W): 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



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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°	4140	4140	4140
5°	4178	3945	3890
10°	4097	3761	3637
15°	4006	3554	3422
20°	3891	3378	3240
25°	3769	3237	3038
30°	3668	3071	2887
35°	3541	2915	2747
40°	3454	2775	2642
45°	3356	2637	2523
50°	3256	2476	2386
55°	3133	2285	2214
60°	3007	2051	2052
65°	2849	1759	1765
70°	2588	1470	1407
75°	2256	1111	918
80°	1767	700	1354
85°	979	1302	4061



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.4	1.9
10°-20°	271.0	5.3
20°-30°	400.6	7.8
30°-40°	477.7	9.3
40°-50°	500.8	9.8
50°-60°	458.2	8.9
60°-70°	349.5	6.8
70°-80°	191.0	3.7
80°-90°	250.1	4.9
90°-100°	471.2	9.2
100°-110°	538.4	10.5
110°-120°	451.4	8.8
120°-130°	296.9	5.8
130°-140°	173.8	3.4
140°-150°	105.5	2.1
150°-160°	58.8	1.1
160°-170°	29.3	0.6
170°-180°	8.9	0.2
0°-30°	769.0	15.0
0°-40°	1246.7	24.3
0°-60°	2205.7	43.0
0°-90°	2996.3	58.4
90°-120°	1461.1	28.5
90°-150°	2037.2	39.7
90°-180°	2134.0	41.6
0°-180°	5130.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1042	1042	1042	1042	1042	
5°	1055	1047	1022	1020	1015	100
15°	994	984	952	939	934	280
25°	891	888	868	853	840	411
35°	770	777	760	752	747	483
45°	644	651	646	654	654	496
55°	502	510	507	520	528	449
65°	353	351	338	366	371	348
75°	189	179	174	167	162	199
85°	40	53	151	409	553	48
90°	5	91	250	616	800	9
95°	76	156	341	744	956	78
105°	225	265	452	767	934	234
115°	320	328	422	583	671	314
125°	326	326	308	331	348	289
135°	242	227	222	210	204	187
145°	144	149	169	184	184	93
155°	119	116	121	134	139	55
165°	114	106	96	98	98	32
175°	111	106	88	81	78	11
180°	93	93	93	93	93	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1042.3	1042.3	1042.3	1042.3	1042.3
2.5°	1062.5	1054.9	1029.7	1029.7	1027.2
5°	1054.9	1047.4	1022.1	1019.6	1014.6
7.5°	1044.9	1034.8	1009.5	1004.5	996.9
10°	1029.7	1022.1	994.4	984.3	974.2
12.5°	1014.6	1004.5	974.2	964.1	954.0
15°	994.4	984.3	951.5	938.9	933.8
17.5°	971.7	961.6	931.3	926.2	916.1
20°	946.4	936.3	908.6	903.5	893.4
22.5°	921.2	913.6	893.4	878.3	868.2
25°	890.9	888.4	868.2	853.0	840.4
27.5°	865.7	860.6	842.9	827.8	817.7
30°	835.4	832.9	815.2	802.6	795.0
32.5°	802.6	805.1	787.4	779.9	772.3
35°	769.8	777.3	759.7	752.1	747.0
37.5°	739.5	749.6	731.9	729.4	726.9
40°	709.2	716.8	704.1	704.1	704.1
42.5°	673.9	683.9	673.9	681.4	681.4
45°	643.6	651.1	646.1	653.7	653.7
47.5°	608.2	615.8	615.8	623.4	623.4
50°	575.4	583.0	580.5	590.6	595.6
52.5°	537.6	545.1	542.6	557.8	560.3
55°	502.2	509.8	507.3	519.9	527.5
57.5°	466.9	474.5	466.9	482.0	492.1
60°	429.0	436.6	426.5	441.7	461.9
62.5°	391.2	393.7	381.1	406.3	421.5
65°	353.3	350.8	338.2	366.0	371.0
67.5°	313.0	307.9	297.8	318.0	320.5
70°	270.0	265.0	257.4	267.5	272.6
72.5°	227.1	222.1	217.0	219.6	209.5
75°	189.3	179.2	174.1	166.6	161.5
77.5°	148.9	141.3	131.2	128.7	136.3
80°	111.0	111.0	95.9	133.8	212.0
82.5°	73.2	78.2	93.4	290.2	398.8
85°	40.4	53.0	151.4	408.9	552.7
87.5°	17.7	63.1	199.4	512.3	683.9
90°	5.0	90.9	249.9	615.8	800.0
92.5°	35.3	126.2	297.8	691.5	890.9
95°	75.7	156.5	340.7	744.5	956.5
97.5°	116.1	194.3	378.6	779.9	989.3
100°	156.5	219.6	406.3	787.4	984.3
102.5°	189.3	244.8	436.6	782.4	971.7
105°	224.6	265.0	451.8	767.2	933.8
107.5°	254.9	282.7	446.7	744.5	895.9
110°	282.7	292.8	441.7	691.5	842.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	305.4	310.4	434.1	636.0	757.1
115°	320.5	328.1	421.5	583.0	671.3
117.5°	330.6	338.2	401.3	524.9	595.6
120°	335.7	340.7	376.0	469.4	512.3
122.5°	333.1	338.2	345.8	401.3	424.0
125°	325.6	325.6	307.9	330.6	348.3
127.5°	313.0	310.4	280.1	280.1	292.8
130°	295.3	285.2	257.4	242.3	254.9
132.5°	272.6	254.9	237.2	214.5	222.1
135°	242.3	227.1	222.1	209.5	204.4
137.5°	209.5	201.9	204.4	209.5	204.4
140°	179.2	181.7	194.3	204.4	204.4
142.5°	159.0	166.6	179.2	191.8	196.9
145°	143.9	148.9	169.1	184.2	184.2
147.5°	131.2	136.3	154.0	171.6	176.7
150°	126.2	131.2	138.8	159.0	166.6
152.5°	121.1	121.1	131.2	148.9	151.4
155°	118.6	116.1	121.1	133.8	138.8
157.5°	116.1	113.6	116.1	121.1	123.7
160°	113.6	108.5	108.5	113.6	116.1
162.5°	113.6	106.0	103.5	108.5	106.0
165°	113.6	106.0	95.9	98.4	98.4
167.5°	113.6	103.5	93.4	90.9	93.4
170°	111.0	103.5	88.3	88.3	83.3
172.5°	111.0	103.5	88.3	83.3	78.2
175°	111.0	106.0	88.3	80.8	78.2
177.5°	111.0	106.0	90.9	83.3	78.2
180°	93.4	93.4	93.4	93.4	93.4

(END OF REPORT)