

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: P534537

Luminaire Tested: **S921DIP-W335-XX4XX-UDD-W-PC**

Issue Date: 6/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534537  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35513)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S921DIP-W335-XX4XX-UDD-W-PC  
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE  
WHITE CURVILINEAR HOUSING WITH PERFORATED UPLIGHT COVER  
Light Source: 3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

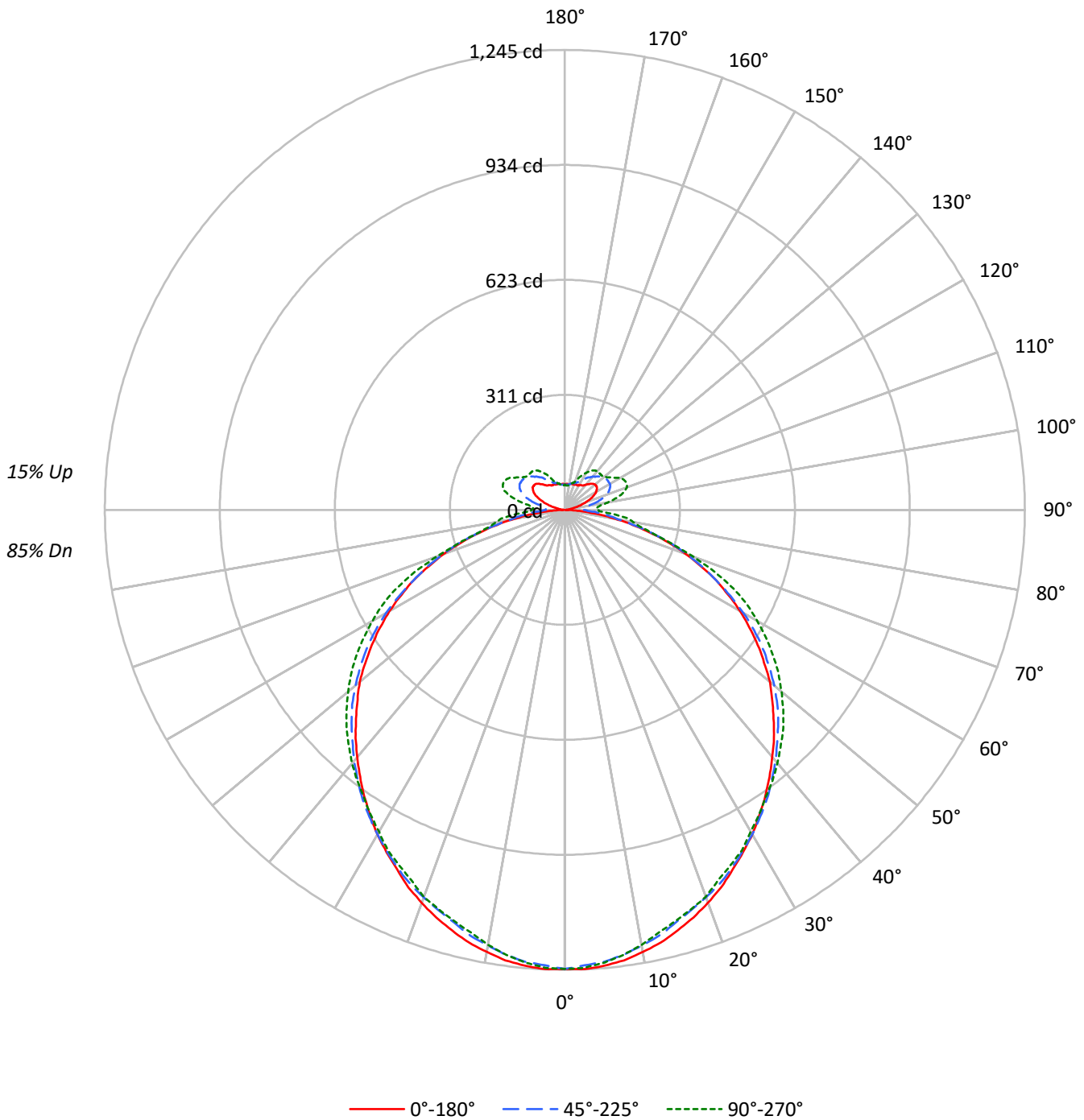
Lumens per Lamp: N/A  
Luminaire Lumens: 4225.3 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')  
CIE Type: Semi-Direct

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	0
RCR																		
0	115	115	115	115	111	111	111	111	103	103	103	95	95	95	88	88	88	85
1	105	100	96	92	101	96	92	89	89	86	83	83	80	78	77	75	73	70
2	95	87	80	74	91	84	77	72	78	73	68	72	68	64	67	64	61	58
3	87	76	68	61	83	73	66	60	68	62	57	63	58	54	59	55	51	48
4	79	67	58	52	76	65	57	51	60	54	48	56	51	46	53	48	44	41
5	73	60	51	44	69	58	50	43	54	47	42	50	44	40	47	42	38	35
6	67	54	45	39	64	52	44	38	49	42	36	46	39	35	43	37	33	31
7	62	49	40	34	59	47	39	33	44	37	32	41	35	31	39	34	30	27
8	58	44	36	30	55	43	35	30	40	33	28	38	32	27	36	30	26	24
9	54	41	32	27	52	39	32	27	37	30	26	35	29	25	33	28	24	22
10	50	37	30	24	48	36	29	24	34	28	23	32	26	22	31	25	22	20

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

	0°	45°	90°
0°	4936	4936	4936
5°	4905	4739	4716
10°	4835	4531	4465
15°	4749	4323	4227
20°	4654	4152	4042
25°	4545	3989	3838
30°	4455	3823	3654
35°	4354	3665	3488
40°	4256	3494	3359
45°	4168	3332	3226
50°	4101	3156	3066
55°	3976	2948	2890
60°	3839	2686	2670
65°	3645	2350	2393
70°	3329	1996	1892
75°	2845	1564	1394
80°	2171	1074	1198
85°	1136	806	955



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.8	2.8
10°-20°	328.7	7.8
20°-30°	493.5	11.7
30°-40°	596.6	14.1
40°-50°	632.2	15.0
50°-60°	589.5	14.0
60°-70°	460.3	10.9
70°-80°	260.1	6.2
80°-90°	103.5	2.5
90°-100°	60.8	1.4
100°-110°	103.9	2.5
110°-120°	132.4	3.1
120°-130°	120.1	2.8
130°-140°	93.3	2.2
140°-150°	66.1	1.6
150°-160°	39.8	0.9
160°-170°	21.0	0.5
170°-180°	6.6	0.2
0°-30°	939.1	22.2
0°-40°	1535.6	36.3
0°-60°	2757.4	65.3
0°-90°	3581.4	84.8
90°-120°	297.2	7.0
90°-150°	576.6	13.6
90°-180°	644.0	15.2
0°-180°	4225.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1243	1243	1243	1243	1243	
5°	1238	1238	1228	1232	1230	118
15°	1179	1177	1157	1157	1153	333
25°	1074	1076	1070	1066	1062	496
35°	946	957	955	953	949	592
45°	799	814	816	831	836	617
55°	637	648	654	676	688	570
65°	452	450	452	488	503	445
75°	239	234	245	243	245	254
85°	47	62	94	117	130	57
90°	2	26	51	77	90	3
95°	6	32	55	77	90	8
105°	38	66	96	136	158	41
115°	83	109	134	166	181	81
125°	107	119	141	147	154	94
135°	100	100	128	134	136	77
145°	81	85	107	124	130	51
155°	75	77	83	94	100	35
165°	72	72	75	75	75	20
175°	70	70	68	68	66	7
180°	68	68	68	68	68	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1242.7	1242.7	1242.7	1242.7	1242.7
2.5°	1244.8	1244.8	1234.2	1240.6	1240.6
5°	1238.4	1238.4	1227.8	1232.0	1229.9
7.5°	1229.9	1227.8	1215.0	1217.1	1215.0
10°	1215.0	1212.9	1197.9	1200.1	1195.8
12.5°	1200.1	1195.8	1180.9	1176.6	1172.4
15°	1178.8	1176.6	1157.4	1157.4	1153.2
17.5°	1157.4	1153.2	1136.1	1138.3	1134.0
20°	1131.9	1129.7	1116.9	1119.1	1114.8
22.5°	1106.3	1104.2	1095.6	1093.5	1085.0
25°	1074.3	1076.4	1070.0	1065.8	1061.5
27.5°	1044.5	1046.6	1042.3	1040.2	1038.1
30°	1014.6	1018.9	1014.6	1010.4	1006.1
32.5°	980.5	986.9	984.8	980.5	978.4
35°	946.4	957.1	954.9	952.8	948.6
37.5°	910.2	925.1	920.8	923.0	923.0
40°	873.9	888.9	886.7	893.1	895.3
42.5°	837.7	850.5	850.5	863.3	865.4
45°	799.3	814.3	816.4	831.3	835.6
47.5°	761.0	773.8	780.2	797.2	801.5
50°	724.7	733.3	739.7	758.8	765.2
52.5°	680.0	690.6	697.0	720.5	729.0
55°	637.3	648.0	654.4	675.7	688.5
57.5°	592.6	603.2	607.5	633.1	645.9
60°	547.8	554.2	558.5	584.1	601.1
62.5°	498.8	503.1	505.2	539.3	556.3
65°	451.9	449.8	451.9	488.1	503.1
67.5°	398.6	398.6	402.9	432.7	439.1
70°	347.4	345.3	349.6	368.8	366.6
72.5°	294.2	287.8	300.6	300.6	300.6
75°	238.7	234.5	245.1	243.0	245.1
77.5°	187.6	187.6	189.7	198.2	206.8
80°	136.4	142.8	147.1	172.7	187.6
82.5°	87.4	98.1	119.4	159.9	170.5
85°	46.9	61.8	93.8	117.2	130.0
87.5°	17.1	40.5	61.8	83.1	93.8
90°	2.1	25.6	51.2	76.7	89.5
92.5°	2.1	27.7	51.2	74.6	85.3
95°	6.4	32.0	55.4	76.7	89.5
97.5°	12.8	38.4	59.7	85.3	100.2
100°	19.2	46.9	68.2	102.3	121.5
102.5°	27.7	55.4	83.1	121.5	140.7
105°	38.4	66.1	95.9	136.4	157.7
107.5°	49.0	78.9	108.7	149.2	170.5
110°	61.8	89.5	119.4	157.7	179.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	72.5	100.2	127.9	162.0	181.2
115°	83.1	108.7	134.3	166.3	181.2
117.5°	91.7	115.1	138.6	166.3	179.1
120°	98.1	119.4	140.7	162.0	172.7
122.5°	102.3	119.4	140.7	155.6	162.0
125°	106.6	119.4	140.7	147.1	153.5
127.5°	106.6	117.2	138.6	140.7	144.9
130°	106.6	113.0	134.3	136.4	138.6
132.5°	104.4	106.6	132.2	134.3	136.4
135°	100.2	100.2	127.9	134.3	136.4
137.5°	93.8	95.9	121.5	136.4	136.4
140°	89.5	91.7	117.2	134.3	136.4
142.5°	83.1	89.5	110.8	130.0	134.3
145°	81.0	85.3	106.6	123.6	130.0
147.5°	78.9	83.1	98.1	117.2	123.6
150°	76.7	81.0	89.5	110.8	115.1
152.5°	74.6	78.9	85.3	104.4	108.7
155°	74.6	76.7	83.1	93.8	100.2
157.5°	74.6	76.7	78.9	85.3	89.5
160°	72.5	74.6	76.7	81.0	81.0
162.5°	72.5	72.5	76.7	76.7	76.7
165°	72.5	72.5	74.6	74.6	74.6
167.5°	72.5	72.5	72.5	72.5	72.5
170°	70.3	70.3	70.3	70.3	70.3
172.5°	70.3	70.3	68.2	68.2	66.1
175°	70.3	70.3	68.2	68.2	66.1
177.5°	70.3	70.3	68.2	68.2	66.1
180°	68.2	68.2	68.2	68.2	68.2

(END OF REPORT)