

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: P534538

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

Issue Date: 6/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534538  
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-W335-XX4XX-UDD-W-SC  
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE  
WHITE CURVILINEAR HOUSING WITH SOLID UPLIGHT COVER  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

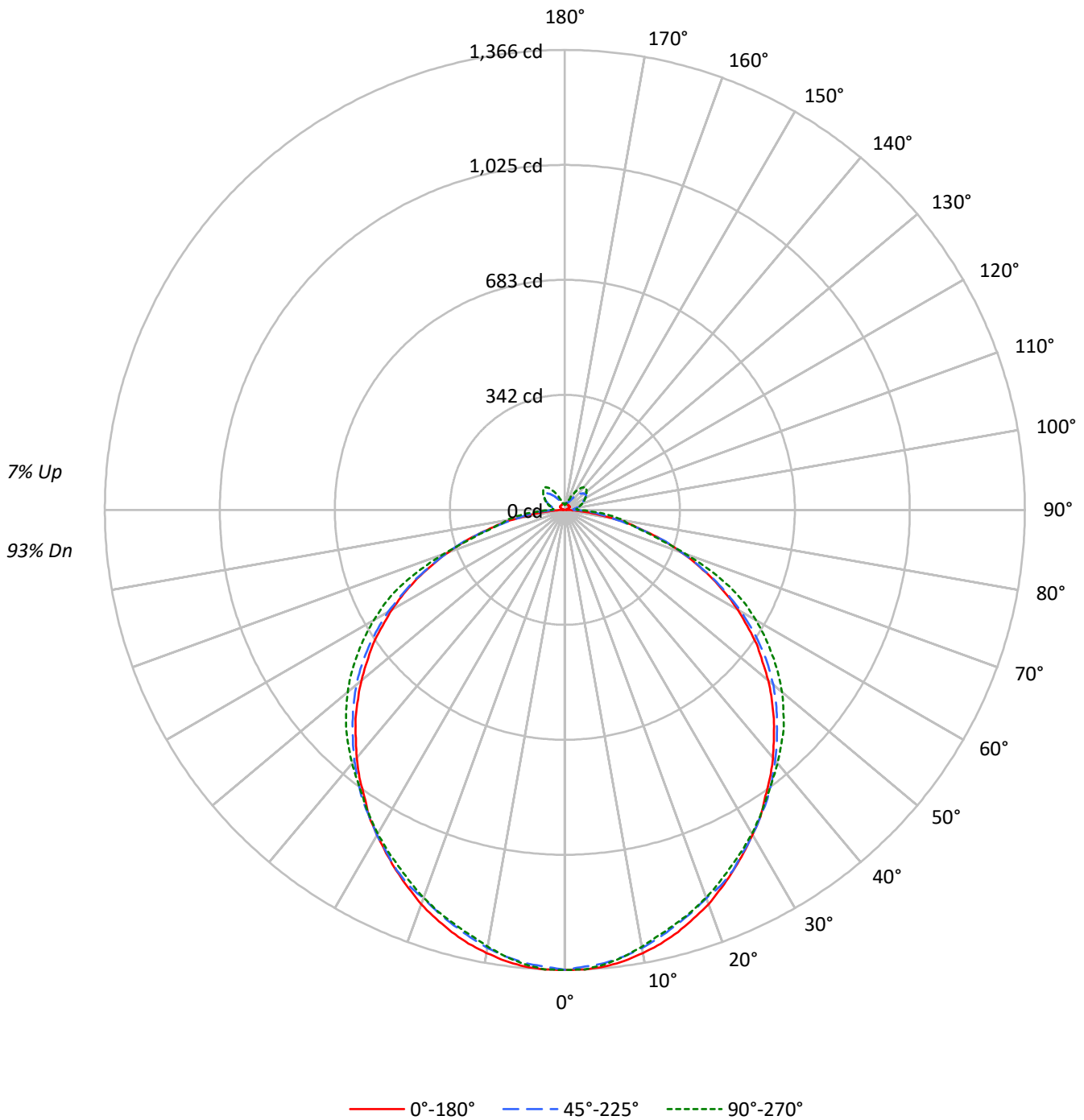
Lumens per Lamp: N/A  
Luminaire Lumens: 4143.9 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')  
CIE Type: Direct

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	0	
RCR																						
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	96	96	96	93	
1	107	102	98	94	104	99	95	92	94	91	88	89	86	84	84	82	80	84	82	80	78	
2	97	89	82	76	94	86	80	75	82	77	72	78	73	70	74	70	67	74	70	67	64	
3	89	78	70	63	85	76	68	62	72	66	60	68	63	58	65	60	57	65	60	57	54	
4	81	69	60	53	78	67	59	53	64	57	51	61	55	50	58	53	48	58	53	48	46	
5	74	61	52	46	72	60	52	45	57	50	44	54	48	43	52	46	42	52	46	42	40	
6	69	55	46	40	66	54	46	39	51	44	39	49	43	38	47	41	37	47	41	37	35	
7	64	50	41	35	61	49	41	35	47	39	34	45	38	33	43	37	33	43	37	33	31	
8	59	46	37	31	57	45	37	31	43	36	30	41	35	30	39	34	29	39	34	29	27	
9	55	42	34	28	53	41	33	28	39	32	27	38	31	27	36	31	26	36	31	26	24	
10	52	39	31	25	50	38	30	25	36	29	25	35	29	24	34	28	24	34	28	24	22	

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

	0°	45°	90°
0°	5427	5427	5427
5°	5394	5216	5198
10°	5318	4999	4918
15°	5230	4769	4664
20°	5127	4565	4445
25°	5005	4403	4223
30°	4895	4200	4034
35°	4776	4025	3841
40°	4682	3830	3687
45°	4580	3636	3546
50°	4464	3447	3373
55°	4335	3207	3158
60°	4153	2912	2907
65°	3903	2539	2575
70°	3534	2106	1969
75°	2972	1578	1358
80°	2273	1027	1117
85°	1136	696	783



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.5	3.1
10°-20°	362.2	8.7
20°-30°	543.3	13.1
30°-40°	655.4	15.8
40°-50°	692.1	16.7
50°-60°	641.8	15.5
60°-70°	493.9	11.9
70°-80°	265.3	6.4
80°-90°	89.4	2.2
90°-100°	29.1	0.7
100°-110°	41.9	1.0
110°-120°	52.7	1.3
120°-130°	53.5	1.3
130°-140°	44.9	1.1
140°-150°	28.8	0.7
150°-160°	13.5	0.3
160°-170°	5.8	0.1
170°-180°	1.8	0.0
0°-30°	1034.0	25.0
0°-40°	1689.4	40.8
0°-60°	3023.3	73.0
0°-90°	3871.9	93.4
90°-120°	123.7	3.0
90°-150°	250.9	6.1
90°-180°	272.0	6.6
0°-180°	4143.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1366	1366	1366	1366	1366	
5°	1362	1362	1351	1358	1356	129
15°	1298	1296	1277	1275	1273	366
25°	1183	1185	1181	1174	1168	545
35°	1038	1051	1049	1047	1044	651
45°	878	891	891	910	919	677
55°	695	703	712	740	752	619
65°	484	484	488	524	541	477
75°	249	247	247	239	239	267
85°	47	60	81	96	107	59
90°	2	17	28	36	38	3
95°	2	21	28	34	36	3
105°	8	40	45	47	47	8
115°	13	49	62	64	64	13
125°	17	38	77	79	79	15
135°	17	26	68	85	90	13
145°	17	21	45	70	77	11
155°	19	21	26	36	43	8
165°	19	19	21	21	21	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°	1366.3	1366.3	1366.3	1366.3	1366.3
2.5°	1366.3	1366.3	1357.8	1366.3	1366.3
5°	1362.1	1362.1	1351.4	1357.8	1355.7
7.5°	1351.4	1349.3	1338.6	1340.8	1338.6
10°	1336.5	1336.5	1321.6	1321.6	1317.3
12.5°	1319.4	1317.3	1300.3	1298.1	1293.9
15°	1298.1	1296.0	1276.8	1274.7	1272.6
17.5°	1272.6	1268.3	1253.4	1255.5	1251.2
20°	1247.0	1242.7	1227.8	1232.1	1225.7
22.5°	1215.0	1212.9	1208.6	1204.3	1197.9
25°	1183.0	1185.2	1180.9	1174.5	1168.1
27.5°	1148.9	1151.1	1146.8	1144.7	1140.4
30°	1114.8	1119.1	1114.8	1114.8	1110.6
32.5°	1080.7	1085.0	1080.7	1078.6	1078.6
35°	1038.1	1050.9	1048.7	1046.6	1044.5
37.5°	1001.8	1014.6	1010.4	1012.5	1012.5
40°	961.3	974.1	972.0	980.5	982.7
42.5°	918.7	931.5	931.5	946.4	950.7
45°	878.2	891.0	891.0	910.2	918.7
47.5°	833.4	844.1	850.5	871.8	880.3
50°	788.7	797.2	807.9	831.3	842.0
52.5°	739.7	750.3	761.0	788.7	799.3
55°	694.9	703.4	711.9	739.7	752.4
57.5°	641.6	652.3	658.7	686.4	705.6
60°	592.6	599.0	605.4	635.2	654.4
62.5°	539.3	543.6	545.7	581.9	603.2
65°	483.9	483.9	488.1	524.4	541.4
67.5°	424.2	426.3	428.4	458.3	462.6
70°	368.8	364.5	368.8	385.8	381.6
72.5°	311.2	304.8	313.3	306.9	298.4
75°	249.4	247.3	247.3	238.7	238.7
77.5°	198.2	194.0	189.7	189.7	194.0
80°	142.8	144.9	140.7	159.9	174.8
82.5°	91.7	95.9	110.8	138.6	142.8
85°	46.9	59.7	81.0	95.9	106.6
87.5°	17.1	36.2	46.9	59.7	66.1
90°	2.1	17.1	27.7	36.2	38.4
92.5°	2.1	19.2	25.6	32.0	34.1
95°	2.1	21.3	27.7	34.1	36.2
97.5°	4.3	25.6	32.0	36.2	38.4
100°	4.3	29.8	36.2	38.4	40.5
102.5°	6.4	34.1	40.5	42.6	42.6
105°	8.5	40.5	44.8	46.9	46.9
107.5°	8.5	44.8	49.0	51.2	51.2
110°	10.7	49.0	53.3	55.4	55.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	12.8	51.2	57.6	59.7	59.7
115°	12.8	49.0	61.8	63.9	63.9
117.5°	14.9	49.0	66.1	66.1	66.1
120°	14.9	46.9	70.3	70.3	70.3
122.5°	17.1	42.6	72.5	74.6	74.6
125°	17.1	38.4	76.7	78.9	78.9
127.5°	17.1	36.2	76.7	81.0	81.0
130°	17.1	32.0	74.6	83.1	83.1
132.5°	17.1	27.7	72.5	87.4	87.4
135°	17.1	25.6	68.2	85.3	89.5
137.5°	17.1	23.4	63.9	85.3	89.5
140°	17.1	23.4	57.6	81.0	87.4
142.5°	17.1	23.4	51.2	76.7	83.1
145°	17.1	21.3	44.8	70.3	76.7
147.5°	17.1	21.3	38.4	61.8	68.2
150°	17.1	21.3	32.0	53.3	61.8
152.5°	17.1	21.3	27.7	44.8	53.3
155°	19.2	21.3	25.6	36.2	42.6
157.5°	19.2	21.3	23.4	29.8	32.0
160°	19.2	19.2	21.3	25.6	25.6
162.5°	19.2	19.2	21.3	21.3	21.3
165°	19.2	19.2	21.3	21.3	21.3
167.5°	19.2	19.2	21.3	21.3	19.2
170°	19.2	19.2	19.2	19.2	19.2
172.5°	19.2	19.2	19.2	19.2	17.1
175°	19.2	19.2	17.1	17.1	14.9
177.5°	19.2	19.2	19.2	17.1	14.9
180°	17.1	17.1	17.1	17.1	17.1

(END OF REPORT)