

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: P534492

Luminaire Tested: **S920DIP-W335-XX4XX-UDD-W-PC**

Issue Date: 6/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534492  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29792)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S920DIP-W335-XX4XX-UDD-W-PC  
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE  
WHITE RECTANCULAR HOUSING WITH PERFORATED UPLIGHT COVER  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

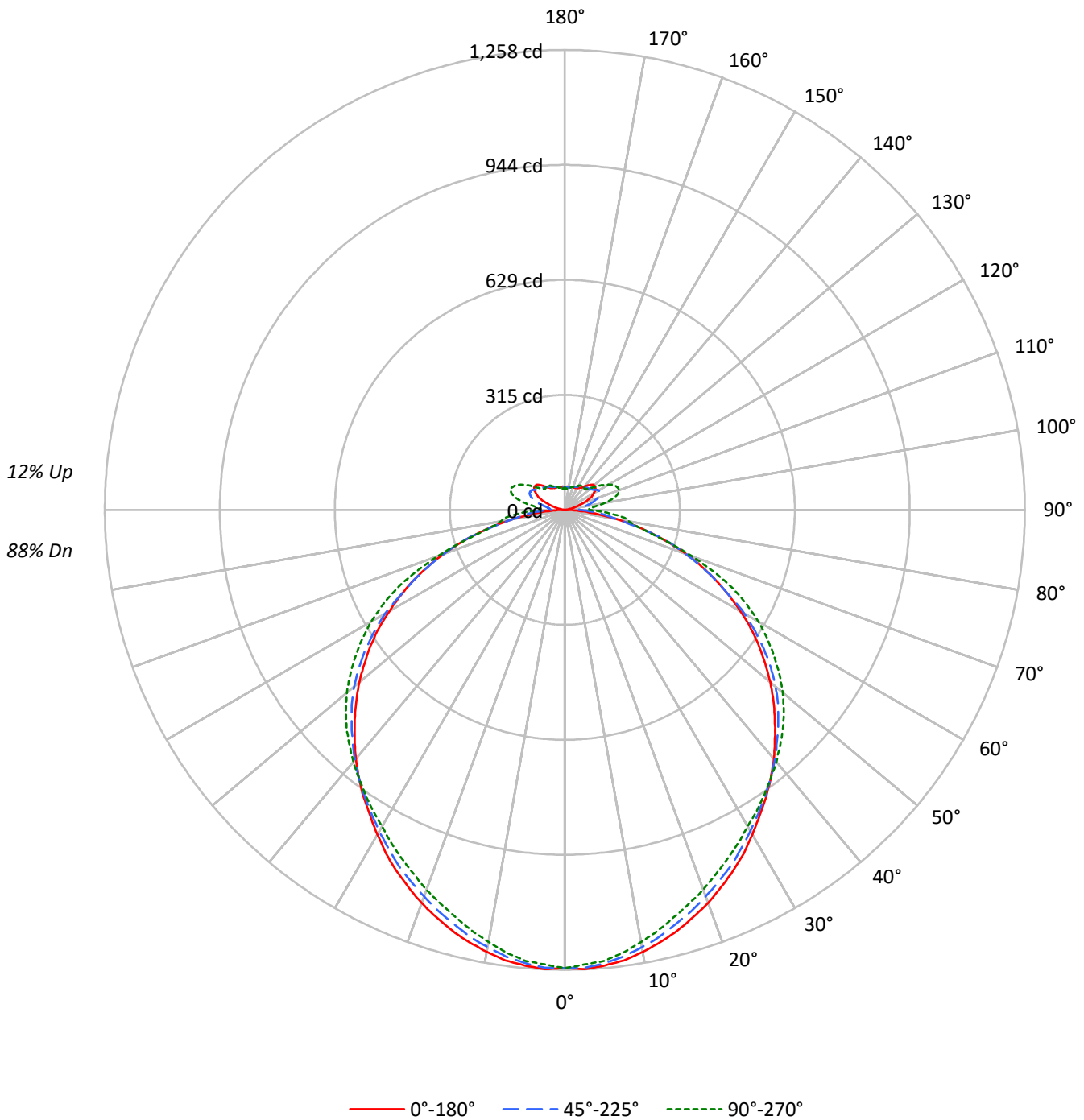
Lumens per Lamp: N/A  
Luminaire Lumens: 4099.1 lumens  
Efficiency: N/A  
Efficacy: 106.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')  
CIE Type: Semi-Direct

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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88		
1	106	101	96	92	102	97	93	90	91	88	85	85	82	80	79	77	75	73		
2	96	87	81	75	92	85	78	73	79	74	69	74	70	66	69	66	63	60		
3	87	77	68	62	84	74	67	61	69	63	58	65	60	55	61	57	53	50		
4	80	68	59	52	76	66	57	51	61	55	49	58	52	47	54	49	45	43		
5	73	60	51	45	70	58	50	44	55	48	42	52	46	41	49	43	39	37		
6	67	54	45	39	65	53	44	38	50	42	37	47	40	36	44	39	34	32		
7	62	49	40	34	60	48	39	34	45	38	33	42	36	31	40	35	30	28		
8	58	45	36	30	56	43	35	30	41	34	29	39	33	28	37	31	27	25		
9	54	41	33	27	52	40	32	27	38	31	26	36	30	25	34	29	25	23		
10	51	38	30	25	49	37	29	24	35	28	24	33	27	23	31	26	22	20		

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

	0°	45°	90°
0°	4978	4978	4978
5°	4955	4805	4749
10°	4886	4595	4481
15°	4801	4379	4227
20°	4706	4184	4012
25°	4608	4005	3807
30°	4502	3823	3631
35°	4413	3665	3496
40°	4329	3519	3375
45°	4235	3367	3258
50°	4150	3210	3117
55°	4042	2996	2935
60°	3884	2727	2718
65°	3679	2373	2403
70°	3371	2008	1892
75°	2921	1551	1346
80°	2239	1027	1130
85°	1240	806	955



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.7	2.9
10°-20°	330.4	8.1
20°-30°	493.6	12.0
30°-40°	597.6	14.6
40°-50°	637.0	15.5
50°-60°	596.3	14.5
60°-70°	464.1	11.3
70°-80°	258.4	6.3
80°-90°	99.8	2.4
90°-100°	48.4	1.2
100°-110°	86.4	2.1
110°-120°	106.2	2.6
120°-130°	91.7	2.2
130°-140°	66.7	1.6
140°-150°	48.5	1.2
150°-160°	32.2	0.8
160°-170°	18.2	0.4
170°-180°	5.9	0.1
0°-30°	941.7	23.0
0°-40°	1539.3	37.6
0°-60°	2772.6	67.6
0°-90°	3594.9	87.7
90°-120°	241.0	5.9
90°-150°	447.8	10.9
90°-180°	504.0	12.3
0°-180°	4099.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1253	1253	1253	1253	1253	
5°	1251	1243	1245	1241	1238	119
15°	1192	1179	1172	1160	1153	336
25°	1089	1081	1074	1057	1053	502
35°	959	957	955	951	951	600
45°	812	812	825	838	844	627
55°	648	648	665	684	699	578
65°	456	454	456	492	505	450
75°	245	239	243	239	237	258
85°	51	60	94	119	130	61
90°	0	19	38	55	66	3
95°	4	23	43	62	77	5
105°	30	47	77	122	145	33
115°	77	77	107	136	154	74
125°	102	96	96	109	115	90
135°	96	87	85	81	81	74
145°	75	75	77	81	81	47
155°	66	66	70	72	70	31
165°	64	64	64	64	64	18
175°	64	62	62	62	58	6
180°	62	62	62	62	62	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1253.4	1253.4	1253.4	1253.4	1253.4
2.5°	1257.6	1249.1	1253.4	1251.2	1244.8
5°	1251.2	1242.7	1244.8	1240.6	1238.4
7.5°	1242.7	1232.1	1232.1	1225.7	1221.4
10°	1227.8	1217.1	1215.0	1204.3	1200.1
12.5°	1210.7	1200.1	1195.8	1183.0	1178.8
15°	1191.6	1178.8	1172.4	1159.6	1153.2
17.5°	1168.1	1157.4	1151.1	1136.1	1129.7
20°	1144.7	1134.0	1125.5	1110.6	1106.3
22.5°	1116.9	1106.3	1099.9	1082.8	1078.6
25°	1089.2	1080.7	1074.3	1057.3	1053.0
27.5°	1059.4	1050.9	1044.5	1031.7	1027.4
30°	1025.3	1021.0	1014.6	1001.8	999.7
32.5°	991.2	989.1	984.8	976.3	976.3
35°	959.2	957.1	954.9	950.7	950.7
37.5°	925.1	923.0	925.1	923.0	925.1
40°	888.9	886.7	893.1	895.3	899.5
42.5°	850.5	850.5	859.0	867.6	871.8
45°	812.1	812.1	824.9	837.7	844.1
47.5°	773.8	773.8	790.8	803.6	812.1
50°	733.3	733.3	752.4	767.4	778.0
52.5°	690.6	690.6	709.8	729.0	739.7
55°	648.0	648.0	665.1	684.2	699.2
57.5°	603.2	603.2	616.0	641.6	656.5
60°	554.2	556.3	567.0	594.7	611.8
62.5°	505.2	505.2	507.3	545.7	560.6
65°	456.2	454.0	456.2	492.4	505.2
67.5°	405.0	400.7	402.9	439.1	439.1
70°	351.7	345.3	351.7	370.9	366.6
72.5°	296.3	289.9	302.7	300.6	296.3
75°	245.1	238.7	243.0	238.7	236.6
77.5°	191.8	187.6	185.4	187.6	194.0
80°	140.7	142.8	140.7	164.1	176.9
82.5°	91.7	95.9	113.0	149.2	164.1
85°	51.2	59.7	93.8	119.4	130.0
87.5°	19.2	38.4	61.8	83.1	93.8
90°	0.0	19.2	38.4	55.4	66.1
92.5°	2.1	19.2	40.5	55.4	66.1
95°	4.3	23.4	42.6	61.8	76.7
97.5°	6.4	27.7	46.9	74.6	91.7
100°	12.8	32.0	55.4	91.7	113.0
102.5°	21.3	38.4	66.1	108.7	130.0
105°	29.8	46.9	76.7	121.5	144.9
107.5°	40.5	53.3	87.4	130.0	153.5
110°	53.3	61.8	95.9	134.3	157.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	63.9	68.2	102.3	136.4	157.7
115°	76.7	76.7	106.6	136.4	153.5
117.5°	85.3	83.1	106.6	134.3	149.2
120°	91.7	89.5	106.6	130.0	138.6
122.5°	98.1	93.8	102.3	119.4	127.9
125°	102.3	95.9	95.9	108.7	115.1
127.5°	104.4	95.9	91.7	98.1	102.3
130°	104.4	95.9	87.4	87.4	93.8
132.5°	102.3	91.7	87.4	81.0	85.3
135°	95.9	87.4	85.3	81.0	81.0
137.5°	89.5	83.1	83.1	81.0	78.9
140°	83.1	81.0	81.0	81.0	81.0
142.5°	76.7	76.7	78.9	81.0	81.0
145°	74.6	74.6	76.7	81.0	81.0
147.5°	70.3	70.3	74.6	78.9	78.9
150°	68.2	70.3	72.5	76.7	76.7
152.5°	68.2	68.2	70.3	74.6	72.5
155°	66.1	66.1	70.3	72.5	70.3
157.5°	66.1	66.1	68.2	70.3	70.3
160°	66.1	63.9	66.1	68.2	66.1
162.5°	66.1	63.9	66.1	66.1	66.1
165°	63.9	63.9	63.9	63.9	63.9
167.5°	63.9	63.9	61.8	63.9	61.8
170°	63.9	61.8	61.8	61.8	59.7
172.5°	63.9	61.8	61.8	61.8	59.7
175°	63.9	61.8	61.8	61.8	57.6
177.5°	61.8	61.8	61.8	61.8	57.6
180°	61.8	61.8	61.8	61.8	61.8

(END OF REPORT)