

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: P534497

Luminaire Tested: **S920DIP-W340-XX4XX-UDD-W**

Issue Date: 6/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534497  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29790)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S920DIP-W340-XX4XX-UDD-W  
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE  
WHITE RECTANCULAR HOUSING  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

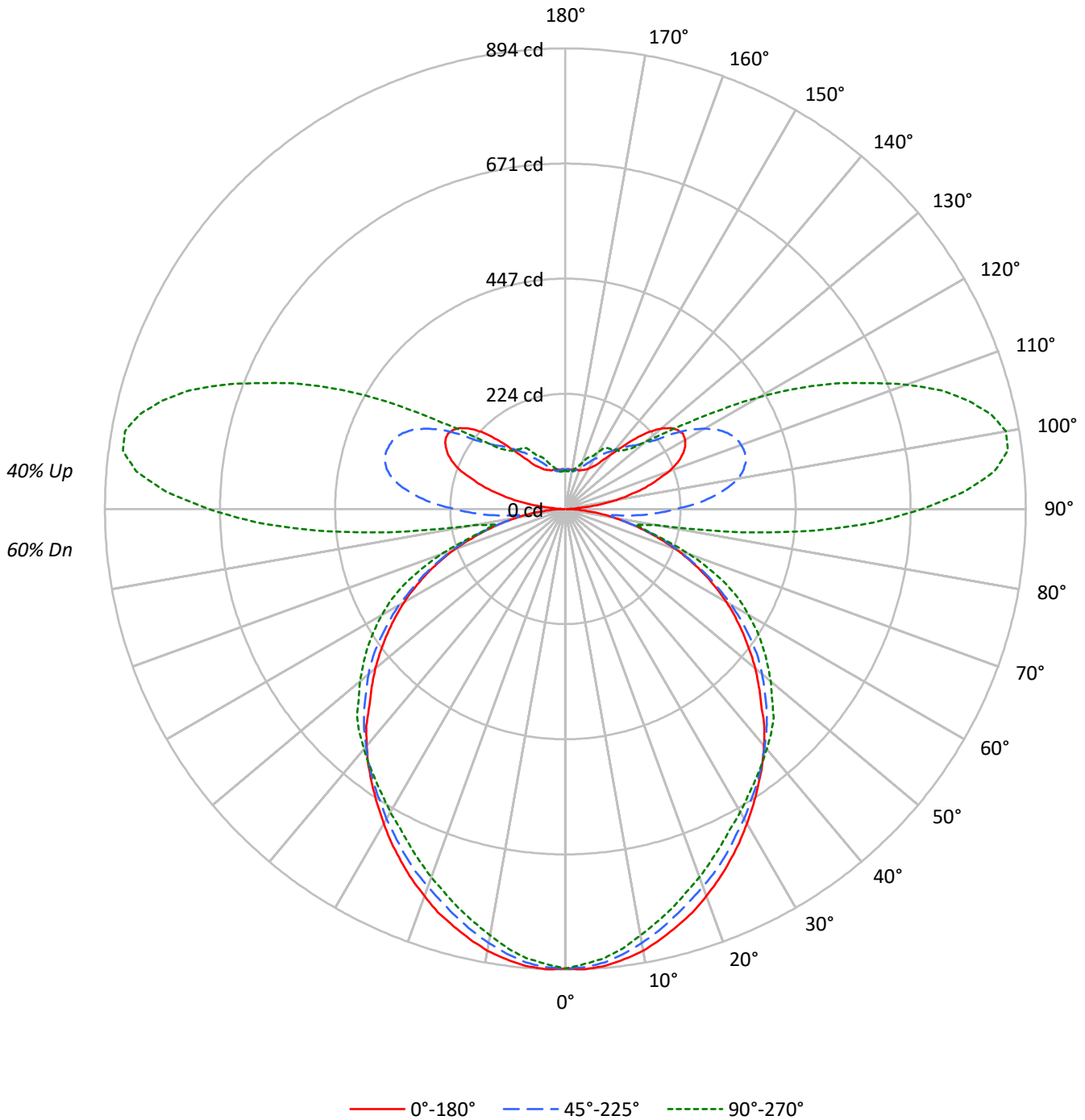
Lumens per Lamp: N/A  
Luminaire Lumens: 4335.2 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.32  
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')  
CIE Type: General Diffuse

Input Watts (W): 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	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	60
1	98	93	89	85	91	87	83	79	75	72	70	65	62	60	55	53	52	47
2	89	81	74	68	83	76	70	64	66	61	57	56	53	50	48	45	43	39
3	81	71	63	57	75	66	59	54	58	52	48	50	45	42	42	39	36	32
4	74	63	54	48	69	59	51	45	51	45	40	44	39	36	38	34	31	28
5	68	56	47	41	63	52	45	39	46	39	35	40	35	31	34	30	27	24
6	63	50	41	35	58	47	39	34	41	35	30	36	31	27	31	27	24	21
7	58	45	37	31	54	42	35	29	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	26	22	19	16
9	50	37	30	24	47	35	28	23	31	25	21	27	22	19	24	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°	3544	3544	3544
5°	3525	3411	3355
10°	3465	3236	3138
15°	3378	3060	2939
20°	3288	2901	2760
25°	3192	2757	2596
30°	3097	2616	2468
35°	3007	2492	2364
40°	2921	2372	2283
45°	2803	2255	2208
50°	2726	2128	2084
55°	2629	1976	1967
60°	2531	1789	1824
65°	2393	1576	1636
70°	2184	1326	1320
75°	1870	1029	929
80°	1506	690	1140
85°	884	1201	3554



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.3	1.9
10°-20°	230.8	5.3
20°-30°	339.6	7.8
30°-40°	405.7	9.4
40°-50°	426.5	9.8
50°-60°	393.9	9.1
60°-70°	308.1	7.1
70°-80°	174.7	4.0
80°-90°	219.8	5.1
90°-100°	400.8	9.2
100°-110°	446.6	10.3
110°-120°	371.6	8.6
120°-130°	243.3	5.6
130°-140°	135.0	3.1
140°-150°	80.2	1.8
150°-160°	45.2	1.0
160°-170°	22.9	0.5
170°-180°	7.3	0.2
0°-30°	653.7	15.1
0°-40°	1059.4	24.4
0°-60°	1879.8	43.4
0°-90°	2582.4	59.6
90°-120°	1219.0	28.1
90°-150°	1677.4	38.7
90°-180°	1753.0	40.4
0°-180°	4335.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	892	892	892	892	892	
5°	890	884	884	877	875	84
15°	838	830	819	806	802	236
25°	755	748	740	724	718	348
35°	654	651	649	643	643	409
45°	538	540	552	565	572	417
55°	421	424	439	458	469	377
65°	297	294	303	335	344	293
75°	157	155	161	163	163	167
85°	36	47	140	361	484	43
90°	2	73	215	525	692	4
95°	34	122	290	647	836	44
105°	161	204	363	656	810	168
115°	252	252	348	490	576	246
125°	267	262	254	282	292	236
135°	194	178	172	155	161	150
145°	103	110	131	144	144	68
155°	84	84	97	108	112	39
165°	80	77	77	82	84	22
175°	77	77	75	75	73	7
180°	75	75	75	75	75	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	892.2	892.2	892.2	892.2	892.2
2.5°	894.3	887.9	890.0	887.9	883.6
5°	890.0	883.6	883.6	877.1	875.0
7.5°	881.4	872.8	870.7	862.1	859.9
10°	870.7	862.1	855.6	844.9	840.6
12.5°	855.6	847.0	838.4	827.7	821.2
15°	838.4	829.8	819.1	806.2	801.9
17.5°	821.2	810.5	799.7	786.8	780.4
20°	799.7	789.0	780.4	765.3	761.0
22.5°	778.2	769.6	761.0	743.8	739.5
25°	754.6	748.1	739.5	724.5	718.1
27.5°	730.9	724.5	715.9	703.0	696.6
30°	705.2	700.9	694.4	681.5	679.4
32.5°	679.4	677.2	670.8	662.2	660.0
35°	653.6	651.4	649.3	642.8	642.8
37.5°	627.8	625.6	625.6	623.5	625.6
40°	599.8	597.7	602.0	604.1	608.4
42.5°	571.9	571.9	578.3	586.9	591.2
45°	537.5	539.6	552.5	565.4	571.9
47.5°	509.5	511.7	524.6	539.6	543.9
50°	481.6	481.6	498.8	511.7	520.3
52.5°	451.5	453.6	470.8	485.9	494.5
55°	421.4	423.5	438.6	457.9	468.7
57.5°	391.3	391.3	406.3	427.8	440.7
60°	361.2	361.2	371.9	395.6	410.6
62.5°	328.9	328.9	335.4	367.6	380.5
65°	296.7	294.5	303.1	335.4	344.0
67.5°	262.3	260.1	266.6	298.8	301.0
70°	227.9	223.6	232.2	255.8	255.8
72.5°	191.3	189.2	199.9	208.5	204.2
75°	156.9	154.8	161.2	163.4	163.4
77.5°	124.7	124.7	124.7	129.0	139.7
80°	94.6	96.7	94.6	126.8	178.4
82.5°	66.6	66.6	90.3	249.4	346.1
85°	36.5	47.3	139.7	361.2	483.7
87.5°	15.0	53.7	180.6	449.3	599.8
90°	2.1	73.1	215.0	524.6	692.3
92.5°	12.9	101.0	258.0	597.7	776.1
95°	34.4	122.5	290.2	647.1	836.3
97.5°	68.8	146.2	318.2	681.5	866.4
100°	101.0	167.7	341.8	685.8	868.5
102.5°	129.0	187.0	354.7	677.2	847.0
105°	161.2	204.2	363.3	655.7	810.5
107.5°	187.0	219.3	365.5	621.3	765.3
110°	215.0	227.9	363.3	580.5	705.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	236.5	238.6	359.0	533.2	638.5
115°	251.5	251.5	348.3	490.2	576.2
117.5°	262.3	264.4	333.2	447.2	505.2
120°	268.7	270.9	311.7	397.7	434.3
122.5°	270.9	268.7	285.9	339.7	359.0
125°	266.6	262.3	253.7	281.6	292.4
127.5°	258.0	247.2	219.3	232.2	240.8
130°	242.9	225.7	197.8	191.3	202.1
132.5°	221.4	202.1	182.7	167.7	174.1
135°	193.5	178.4	172.0	154.8	161.2
137.5°	163.4	156.9	161.2	154.8	152.6
140°	137.6	139.7	150.5	150.5	150.5
142.5°	118.2	124.7	139.7	148.3	146.2
145°	103.2	109.6	131.1	144.0	144.0
147.5°	96.7	98.9	118.2	131.1	139.7
150°	90.3	92.4	111.8	122.5	126.8
152.5°	86.0	88.1	103.2	116.1	116.1
155°	83.8	83.8	96.7	107.5	111.8
157.5°	81.7	81.7	90.3	101.0	105.3
160°	79.5	79.5	86.0	96.7	94.6
162.5°	79.5	77.4	81.7	88.1	88.1
165°	79.5	77.4	77.4	81.7	83.8
167.5°	79.5	77.4	75.2	77.4	77.4
170°	77.4	77.4	75.2	75.2	73.1
172.5°	77.4	77.4	77.4	75.2	73.1
175°	77.4	77.4	75.2	75.2	73.1
177.5°	77.4	77.4	77.4	75.2	73.1
180°	75.2	75.2	75.2	75.2	75.2

(END OF REPORT)