

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: P534494

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

Issue Date: 6/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534494  
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-W335-XX4XX-UDD-W  
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE  
WHITE RECTANCULAR HOUSING  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

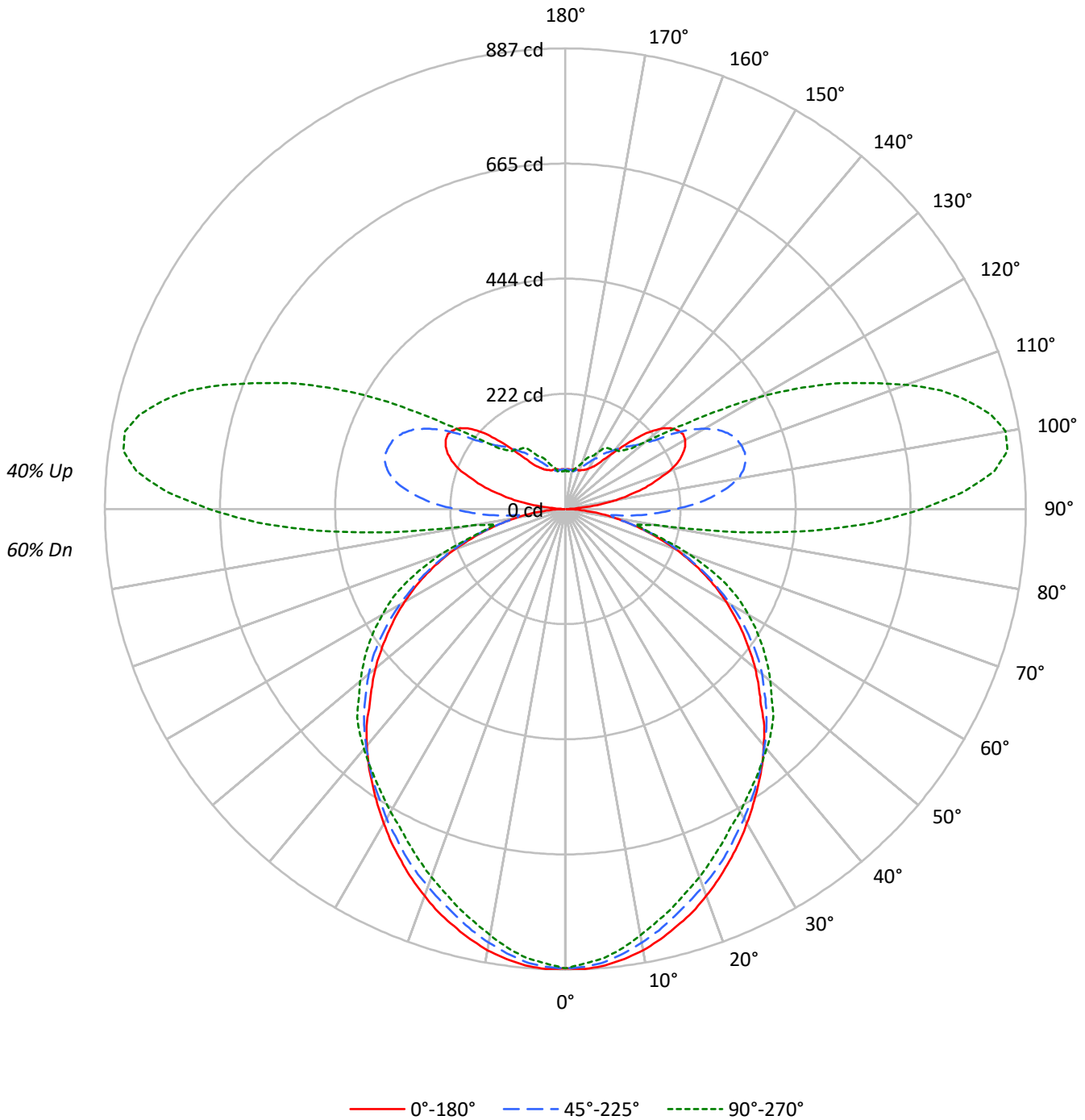
Lumens per Lamp: N/A  
Luminaire Lumens: 4298.4 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.32  
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')  
CIE Type: General Diffuse

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	39	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°	3514	3514	3514
5°	3495	3382	3327
10°	3435	3209	3112
15°	3349	3034	2914
20°	3260	2877	2736
25°	3165	2734	2574
30°	3070	2594	2447
35°	2981	2470	2343
40°	2896	2352	2263
45°	2779	2236	2189
50°	2702	2110	2066
55°	2606	1958	1950
60°	2510	1774	1808
65°	2373	1563	1622
70°	2165	1314	1309
75°	1854	1021	921
80°	1493	685	1130
85°	877	1191	3524



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.6	1.9
10°-20°	228.9	5.3
20°-30°	336.7	7.8
30°-40°	402.3	9.4
40°-50°	422.8	9.8
50°-60°	390.6	9.1
60°-70°	305.5	7.1
70°-80°	173.2	4.0
80°-90°	217.9	5.1
90°-100°	397.4	9.2
100°-110°	442.8	10.3
110°-120°	368.5	8.6
120°-130°	241.2	5.6
130°-140°	133.8	3.1
140°-150°	79.5	1.8
150°-160°	44.8	1.0
160°-170°	22.7	0.5
170°-180°	7.2	0.2
0°-30°	648.2	15.1
0°-40°	1050.4	24.4
0°-60°	1863.8	43.4
0°-90°	2560.5	59.6
90°-120°	1208.7	28.1
90°-150°	1663.2	38.7
90°-180°	1738.0	40.4
0°-180°	4298.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	885	885	885	885	885	
5°	882	876	876	870	868	84
15°	831	823	812	799	795	234
25°	748	742	733	718	712	345
35°	648	646	644	637	637	406
45°	533	535	548	561	567	413
55°	418	420	435	454	465	374
65°	294	292	301	332	341	290
75°	156	154	160	162	162	166
85°	36	47	139	358	480	43
90°	2	72	213	520	686	4
95°	34	122	288	642	829	43
105°	160	202	360	650	804	166
115°	249	249	345	486	571	244
125°	264	260	252	279	290	234
135°	192	177	170	154	160	149
145°	102	109	130	143	143	68
155°	83	83	96	107	111	39
165°	79	77	77	81	83	22
175°	77	77	75	75	72	7
180°	75	75	75	75	75	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	884.6	884.6	884.6	884.6	884.6
2.5°	886.7	880.3	882.5	880.3	876.1
5°	882.5	876.1	876.1	869.7	867.6
7.5°	873.9	865.4	863.3	854.8	852.6
10°	863.3	854.8	848.4	837.7	833.4
12.5°	848.4	839.8	831.3	820.7	814.3
15°	831.3	822.8	812.1	799.3	795.1
17.5°	814.3	803.6	792.9	780.2	773.8
20°	792.9	782.3	773.8	758.8	754.6
22.5°	771.6	763.1	754.6	737.5	733.3
25°	748.2	741.8	733.3	718.3	711.9
27.5°	724.7	718.3	709.8	697.0	690.6
30°	699.2	694.9	688.5	675.7	673.6
32.5°	673.6	671.4	665.1	656.5	654.4
35°	648.0	645.9	643.7	637.3	637.3
37.5°	622.4	620.3	620.3	618.2	620.3
40°	594.7	592.6	596.8	599.0	603.2
42.5°	567.0	567.0	573.4	581.9	586.2
45°	532.9	535.0	547.8	560.6	567.0
47.5°	505.2	507.3	520.1	535.0	539.3
50°	477.5	477.5	494.5	507.3	515.8
52.5°	447.6	449.8	466.8	481.7	490.3
55°	417.8	419.9	434.8	454.0	464.7
57.5°	387.9	387.9	402.9	424.2	437.0
60°	358.1	358.1	368.8	392.2	407.1
62.5°	326.1	326.1	332.5	364.5	377.3
65°	294.2	292.0	300.6	332.5	341.1
67.5°	260.1	257.9	264.3	296.3	298.4
70°	225.9	221.7	230.2	253.7	253.7
72.5°	189.7	187.6	198.2	206.8	202.5
75°	155.6	153.5	159.9	162.0	162.0
77.5°	123.6	123.6	123.6	127.9	138.6
80°	93.8	95.9	93.8	125.8	176.9
82.5°	66.1	66.1	89.5	247.3	343.2
85°	36.2	46.9	138.6	358.1	479.6
87.5°	14.9	53.3	179.1	445.5	594.7
90°	2.1	72.5	213.2	520.1	686.4
92.5°	12.8	100.2	255.8	592.6	769.5
95°	34.1	121.5	287.8	641.6	829.2
97.5°	68.2	144.9	315.5	675.7	859.0
100°	100.2	166.3	338.9	680.0	861.2
102.5°	127.9	185.4	351.7	671.4	839.8
105°	159.9	202.5	360.2	650.1	803.6
107.5°	185.4	217.4	362.4	616.0	758.8
110°	213.2	225.9	360.2	575.5	699.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	234.5	236.6	356.0	528.6	633.1
115°	249.4	249.4	345.3	486.0	571.3
117.5°	260.1	262.2	330.4	443.4	500.9
120°	266.4	268.6	309.1	394.3	430.6
122.5°	268.6	266.4	283.5	336.8	356.0
125°	264.3	260.1	251.5	279.2	289.9
127.5°	255.8	245.1	217.4	230.2	238.7
130°	240.9	223.8	196.1	189.7	200.4
132.5°	219.6	200.4	181.2	166.3	172.7
135°	191.8	176.9	170.5	153.5	159.9
137.5°	162.0	155.6	159.9	153.5	151.3
140°	136.4	138.6	149.2	149.2	149.2
142.5°	117.2	123.6	138.6	147.1	144.9
145°	102.3	108.7	130.0	142.8	142.8
147.5°	95.9	98.1	117.2	130.0	138.6
150°	89.5	91.7	110.8	121.5	125.8
152.5°	85.3	87.4	102.3	115.1	115.1
155°	83.1	83.1	95.9	106.6	110.8
157.5°	81.0	81.0	89.5	100.2	104.4
160°	78.9	78.9	85.3	95.9	93.8
162.5°	78.9	76.7	81.0	87.4	87.4
165°	78.9	76.7	76.7	81.0	83.1
167.5°	78.9	76.7	74.6	76.7	76.7
170°	76.7	76.7	74.6	74.6	72.5
172.5°	76.7	76.7	76.7	74.6	72.5
175°	76.7	76.7	74.6	74.6	72.5
177.5°	76.7	76.7	76.7	74.6	72.5
180°	74.6	74.6	74.6	74.6	74.6

(END OF REPORT)