

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: P534491

Luminaire Tested: **S920DIP-W330-XX4XX-UDD-W**

Issue Date: 6/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534491  
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-W330-XX4XX-UDD-W  
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE  
WHITE RECTANCULAR HOUSING  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

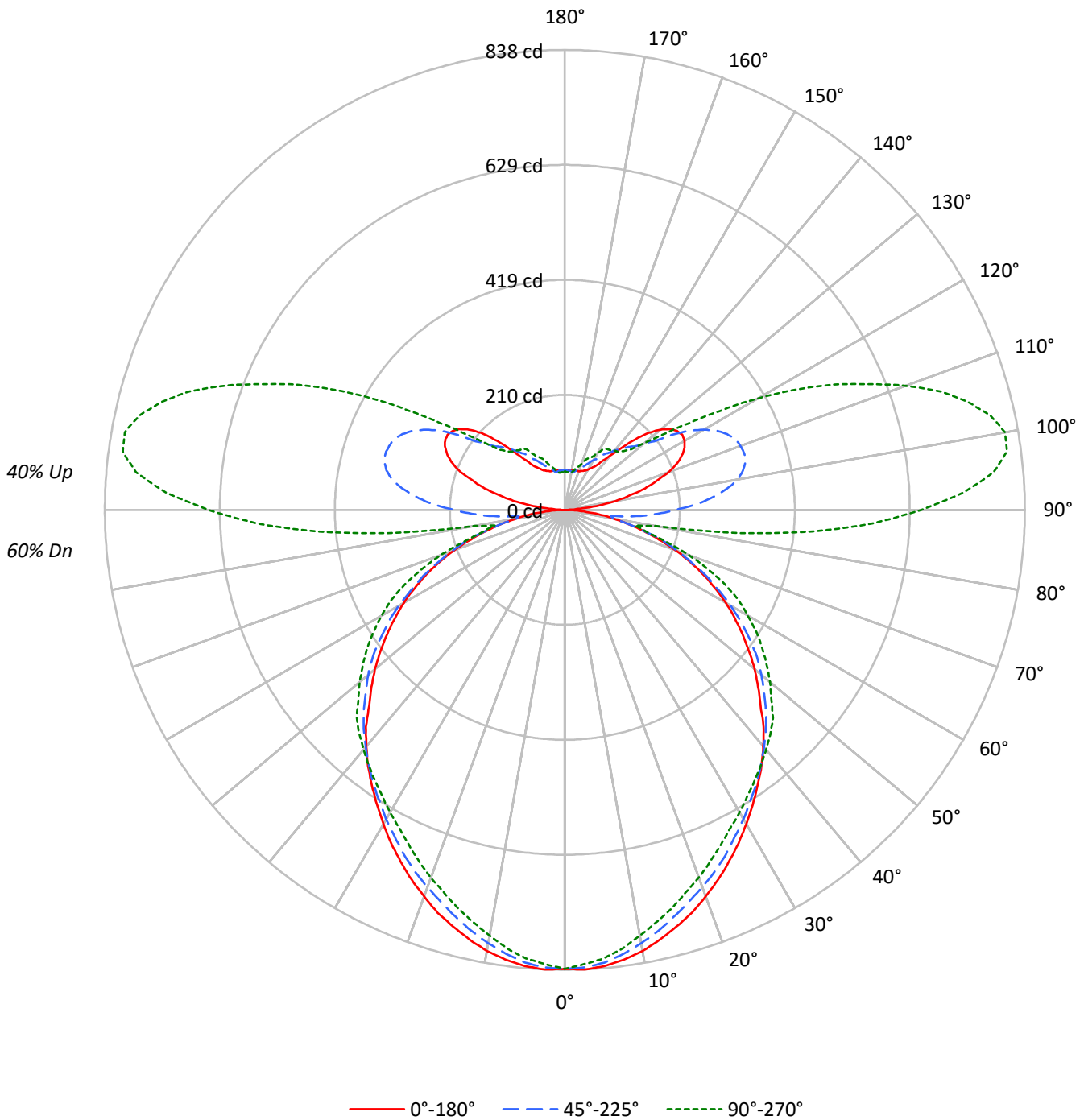
Lumens per Lamp: N/A  
Luminaire Lumens: 4063.9 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.32  
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')  
CIE Type: General Diffuse

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				
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	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°	3322	3322	3322
5°	3304	3197	3145
10°	3248	3034	2942
15°	3167	2868	2755
20°	3082	2720	2587
25°	2993	2585	2433
30°	2902	2452	2313
35°	2819	2336	2216
40°	2738	2224	2140
45°	2627	2114	2070
50°	2555	1995	1954
55°	2464	1852	1844
60°	2373	1677	1710
65°	2243	1478	1533
70°	2047	1243	1237
75°	1753	964	871
80°	1412	647	1069
85°	831	1126	3332



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.0	1.9
10°-20°	216.4	5.3
20°-30°	318.4	7.8
30°-40°	380.3	9.4
40°-50°	399.8	9.8
50°-60°	369.3	9.1
60°-70°	288.9	7.1
70°-80°	163.8	4.0
80°-90°	206.0	5.1
90°-100°	375.7	9.2
100°-110°	418.7	10.3
110°-120°	348.4	8.6
120°-130°	228.0	5.6
130°-140°	126.5	3.1
140°-150°	75.1	1.8
150°-160°	42.4	1.0
160°-170°	21.5	0.5
170°-180°	6.8	0.2
0°-30°	612.8	15.1
0°-40°	993.1	24.4
0°-60°	1762.2	43.4
0°-90°	2420.8	59.6
90°-120°	1142.7	28.1
90°-150°	1572.5	38.7
90°-180°	1643.0	40.4
0°-180°	4063.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	836	836	836	836	836	
5°	834	828	828	822	820	79
15°	786	778	768	756	752	222
25°	707	701	693	679	673	326
35°	613	611	609	603	603	384
45°	504	506	518	530	536	391
55°	395	397	411	429	439	353
65°	278	276	284	314	322	274
75°	147	145	151	153	153	157
85°	34	44	131	339	453	40
90°	2	68	202	492	649	4
95°	32	115	272	607	784	41
105°	151	192	341	615	760	157
115°	236	236	326	460	540	230
125°	250	246	238	264	274	221
135°	181	167	161	145	151	141
145°	97	103	123	135	135	64
155°	79	79	91	101	105	37
165°	75	73	73	77	79	21
175°	73	73	70	70	68	7
180°	70	70	70	70	70	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	836.4	836.4	836.4	836.4	836.4
2.5°	838.4	832.3	834.3	832.3	828.3
5°	834.3	828.3	828.3	822.2	820.2
7.5°	826.3	818.2	816.2	808.1	806.1
10°	816.2	808.1	802.1	792.0	788.0
12.5°	802.1	794.0	786.0	775.9	769.8
15°	786.0	777.9	767.8	755.7	751.7
17.5°	769.8	759.8	749.7	737.6	731.6
20°	749.7	739.6	731.6	717.4	713.4
22.5°	729.5	721.5	713.4	697.3	693.3
25°	707.4	701.3	693.3	679.2	673.1
27.5°	685.2	679.2	671.1	659.0	653.0
30°	661.0	657.0	650.9	638.9	636.8
32.5°	636.8	634.8	628.8	620.7	618.7
35°	612.7	610.6	608.6	602.6	602.6
37.5°	588.5	586.5	586.5	584.4	586.5
40°	562.3	560.3	564.3	566.3	570.3
42.5°	536.1	536.1	542.1	550.2	554.2
45°	503.8	505.8	517.9	530.0	536.1
47.5°	477.6	479.6	491.7	505.8	509.9
50°	451.4	451.4	467.6	479.6	487.7
52.5°	423.2	425.2	441.4	455.5	463.5
55°	395.0	397.0	411.1	429.3	439.3
57.5°	366.8	366.8	380.9	401.0	413.1
60°	338.6	338.6	348.6	370.8	384.9
62.5°	308.3	308.3	314.4	344.6	356.7
65°	278.1	276.1	284.2	314.4	322.4
67.5°	245.9	243.9	249.9	280.1	282.1
70°	213.6	209.6	217.7	239.8	239.8
72.5°	179.4	177.3	187.4	195.5	191.5
75°	147.1	145.1	151.1	153.2	153.2
77.5°	116.9	116.9	116.9	120.9	131.0
80°	88.7	90.7	88.7	118.9	167.3
82.5°	62.5	62.5	84.6	233.8	324.5
85°	34.3	44.3	131.0	338.6	453.4
87.5°	14.1	50.4	169.3	421.2	562.3
90°	2.0	68.5	201.5	491.7	648.9
92.5°	12.1	94.7	241.8	560.3	727.5
95°	32.2	114.9	272.1	606.6	784.0
97.5°	64.5	137.0	298.3	638.9	812.2
100°	94.7	157.2	320.4	642.9	814.2
102.5°	120.9	175.3	332.5	634.8	794.0
105°	151.1	191.5	340.6	614.7	759.8
107.5°	175.3	205.6	342.6	582.4	717.4
110°	201.5	213.6	340.6	544.1	661.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	221.7	223.7	336.6	499.8	598.5
115°	235.8	235.8	326.5	459.5	540.1
117.5°	245.9	247.9	312.4	419.2	473.6
120°	251.9	253.9	292.2	372.8	407.1
122.5°	253.9	251.9	268.0	318.4	336.6
125°	249.9	245.9	237.8	264.0	274.1
127.5°	241.8	231.8	205.6	217.7	225.7
130°	227.7	211.6	185.4	179.4	189.4
132.5°	207.6	189.4	171.3	157.2	163.2
135°	181.4	167.3	161.2	145.1	151.1
137.5°	153.2	147.1	151.1	145.1	143.1
140°	129.0	131.0	141.1	141.1	141.1
142.5°	110.8	116.9	131.0	139.1	137.0
145°	96.7	102.8	122.9	135.0	135.0
147.5°	90.7	92.7	110.8	122.9	131.0
150°	84.6	86.7	104.8	114.9	118.9
152.5°	80.6	82.6	96.7	108.8	108.8
155°	78.6	78.6	90.7	100.8	104.8
157.5°	76.6	76.6	84.6	94.7	98.7
160°	74.6	74.6	80.6	90.7	88.7
162.5°	74.6	72.6	76.6	82.6	82.6
165°	74.6	72.6	72.6	76.6	78.6
167.5°	74.6	72.6	70.5	72.6	72.6
170°	72.6	72.6	70.5	70.5	68.5
172.5°	72.6	72.6	72.6	70.5	68.5
175°	72.6	72.6	70.5	70.5	68.5
177.5°	72.6	72.6	72.6	70.5	68.5
180°	70.5	70.5	70.5	70.5	70.5

(END OF REPORT)