

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: P534527

Luminaire Tested: **S921DIP-W230-XX4XX-UDD-W**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35510-R2)
Test Lab: INNOVATION CENTER
Issue Date: 6/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S921DIP-W230-XX4XX-UDD-W
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE CURVILINEAR HOUSING
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

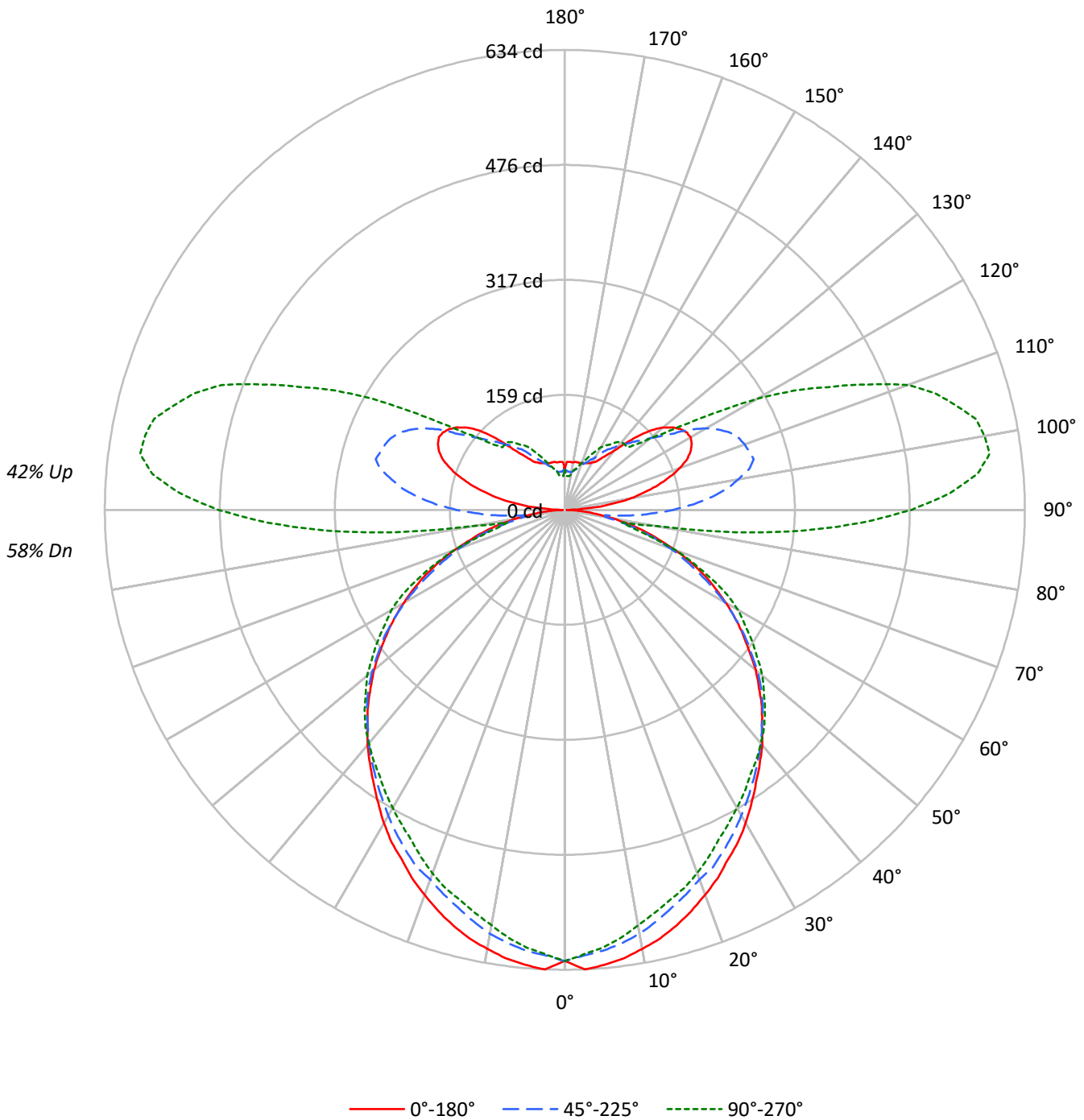
Lumens per Lamp: N/A
Luminaire Lumens: 3061.9 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.14 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: General Diffuse

Input Watts (W): 27.7
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	88	88	88	75	75	75	64	64	64	58
1	98	93	89	85	91	87	83	79	75	72	69	64	62	60	54	52	51	46
2	89	81	74	69	83	76	70	65	65	61	57	56	52	49	47	45	42	38
3	81	71	63	57	75	66	59	54	57	52	47	49	45	42	42	39	36	32
4	74	63	54	48	69	59	51	45	51	45	40	44	39	35	37	34	31	27
5	68	56	47	41	63	52	45	39	46	39	35	39	34	31	33	30	27	24
6	63	50	42	36	58	47	39	34	41	35	30	35	31	27	30	26	23	21
7	58	45	37	31	54	42	35	30	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	25	21	19	16
9	50	37	30	24	47	35	28	23	31	25	21	27	22	19	23	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°	2471	2471	2471
5°	2493	2355	2322
10°	2445	2245	2171
15°	2391	2121	2043
20°	2322	2016	1933
25°	2249	1932	1813
30°	2189	1833	1723
35°	2113	1740	1639
40°	2061	1656	1577
45°	2003	1574	1506
50°	1943	1478	1424
55°	1870	1364	1321
60°	1795	1224	1224
65°	1701	1050	1053
70°	1545	877	840
75°	1347	663	548
80°	1055	417	808
85°	584	777	2424



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.2	1.9
10°-20°	161.7	5.3
20°-30°	239.1	7.8
30°-40°	285.1	9.3
40°-50°	298.9	9.8
50°-60°	273.5	8.9
60°-70°	208.6	6.8
70°-80°	114.0	3.7
80°-90°	149.3	4.9
90°-100°	281.2	9.2
100°-110°	321.3	10.5
110°-120°	269.4	8.8
120°-130°	177.2	5.8
130°-140°	103.7	3.4
140°-150°	63.0	2.1
150°-160°	35.1	1.1
160°-170°	17.5	0.6
170°-180°	5.3	0.2
0°-30°	459.0	15.0
0°-40°	744.1	24.3
0°-60°	1316.4	43.0
0°-90°	1788.2	58.4
90°-120°	872.0	28.5
90°-150°	1215.8	39.7
90°-180°	1274.0	41.6
0°-180°	3061.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	622	622	622	622	622	
5°	630	625	610	608	606	60
15°	594	587	568	560	557	167
25°	532	530	518	509	502	246
35°	459	464	453	449	446	288
45°	384	389	386	390	390	296
55°	300	304	303	310	315	268
65°	211	209	202	218	221	208
75°	113	107	104	99	96	119
85°	24	32	90	244	330	29
90°	3	54	149	368	478	5
95°	45	93	203	444	571	47
105°	134	158	270	458	557	140
115°	191	196	252	348	401	187
125°	194	194	184	197	208	172
135°	145	136	132	125	122	112
145°	86	89	101	110	110	55
155°	71	69	72	80	83	33
165°	68	63	57	59	59	19
175°	66	63	53	48	47	6
180°	56	56	56	56	56	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	622.1	622.1	622.1	622.1	622.1
2.5°	634.1	629.6	614.5	614.5	613.0
5°	629.6	625.1	610.0	608.5	605.5
7.5°	623.6	617.6	602.5	599.5	595.0
10°	614.5	610.0	593.5	587.4	581.4
12.5°	605.5	599.5	581.4	575.4	569.4
15°	593.5	587.4	567.8	560.3	557.3
17.5°	579.9	573.9	555.8	552.8	546.8
20°	564.8	558.8	542.2	539.2	533.2
22.5°	549.8	545.3	533.2	524.2	518.1
25°	531.7	530.2	518.1	509.1	501.6
27.5°	516.6	513.6	503.1	494.0	488.0
30°	498.6	497.1	486.5	479.0	474.5
32.5°	479.0	480.5	469.9	465.4	460.9
35°	459.4	463.9	453.4	448.9	445.8
37.5°	441.3	447.3	436.8	435.3	433.8
40°	423.3	427.8	420.2	420.2	420.2
42.5°	402.2	408.2	402.2	406.7	406.7
45°	384.1	388.6	385.6	390.1	390.1
47.5°	363.0	367.5	367.5	372.0	372.0
50°	343.4	347.9	346.4	352.5	355.5
52.5°	320.8	325.3	323.8	332.9	334.4
55°	299.7	304.3	302.8	310.3	314.8
57.5°	278.7	283.2	278.7	287.7	293.7
60°	256.1	260.6	254.6	263.6	275.6
62.5°	233.5	235.0	227.4	242.5	251.5
65°	210.9	209.4	201.8	218.4	221.4
67.5°	186.8	183.8	177.7	189.8	191.3
70°	161.2	158.2	153.6	159.7	162.7
72.5°	135.6	132.5	129.5	131.0	125.0
75°	113.0	106.9	103.9	99.4	96.4
77.5°	88.9	84.3	78.3	76.8	81.3
80°	66.3	66.3	57.2	79.8	126.5
82.5°	43.7	46.7	55.7	173.2	238.0
85°	24.1	31.6	90.4	244.0	329.9
87.5°	10.5	37.7	119.0	305.8	408.2
90°	3.0	54.2	149.1	367.5	477.5
92.5°	21.1	75.3	177.7	412.7	531.7
95°	45.2	93.4	203.3	444.3	570.9
97.5°	69.3	116.0	225.9	465.4	590.4
100°	93.4	131.0	242.5	469.9	587.4
102.5°	113.0	146.1	260.6	466.9	579.9
105°	134.1	158.2	269.6	457.9	557.3
107.5°	152.1	168.7	266.6	444.3	534.7
110°	168.7	174.7	263.6	412.7	503.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	182.3	185.3	259.1	379.6	451.9
115°	191.3	195.8	251.5	347.9	400.7
117.5°	197.3	201.8	239.5	313.3	355.5
120°	200.3	203.3	224.4	280.2	305.8
122.5°	198.8	201.8	206.4	239.5	253.0
125°	194.3	194.3	183.8	197.3	207.9
127.5°	186.8	185.3	167.2	167.2	174.7
130°	176.2	170.2	153.6	144.6	152.1
132.5°	162.7	152.1	141.6	128.0	132.5
135°	144.6	135.6	132.5	125.0	122.0
137.5°	125.0	120.5	122.0	125.0	122.0
140°	106.9	108.4	116.0	122.0	122.0
142.5°	94.9	99.4	106.9	114.5	117.5
145°	85.9	88.9	100.9	110.0	110.0
147.5°	78.3	81.3	91.9	102.4	105.4
150°	75.3	78.3	82.8	94.9	99.4
152.5°	72.3	72.3	78.3	88.9	90.4
155°	70.8	69.3	72.3	79.8	82.8
157.5°	69.3	67.8	69.3	72.3	73.8
160°	67.8	64.8	64.8	67.8	69.3
162.5°	67.8	63.3	61.8	64.8	63.3
165°	67.8	63.3	57.2	58.7	58.7
167.5°	67.8	61.8	55.7	54.2	55.7
170°	66.3	61.8	52.7	52.7	49.7
172.5°	66.3	61.8	52.7	49.7	46.7
175°	66.3	63.3	52.7	48.2	46.7
177.5°	66.3	63.3	54.2	49.7	46.7
180°	55.7	55.7	55.7	55.7	55.7

(END OF REPORT)