

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: P534520

Luminaire Tested: **S921DIP-W135-XX4XX-UDD-W-SC**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35514)
Test Lab: INNOVATION CENTER
Issue Date: 6/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S921DIP-W135-XX4XX-UDD-W-SC
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE CURVILINEAR HOUSING WITH SOLID UPLIGHT COVER
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

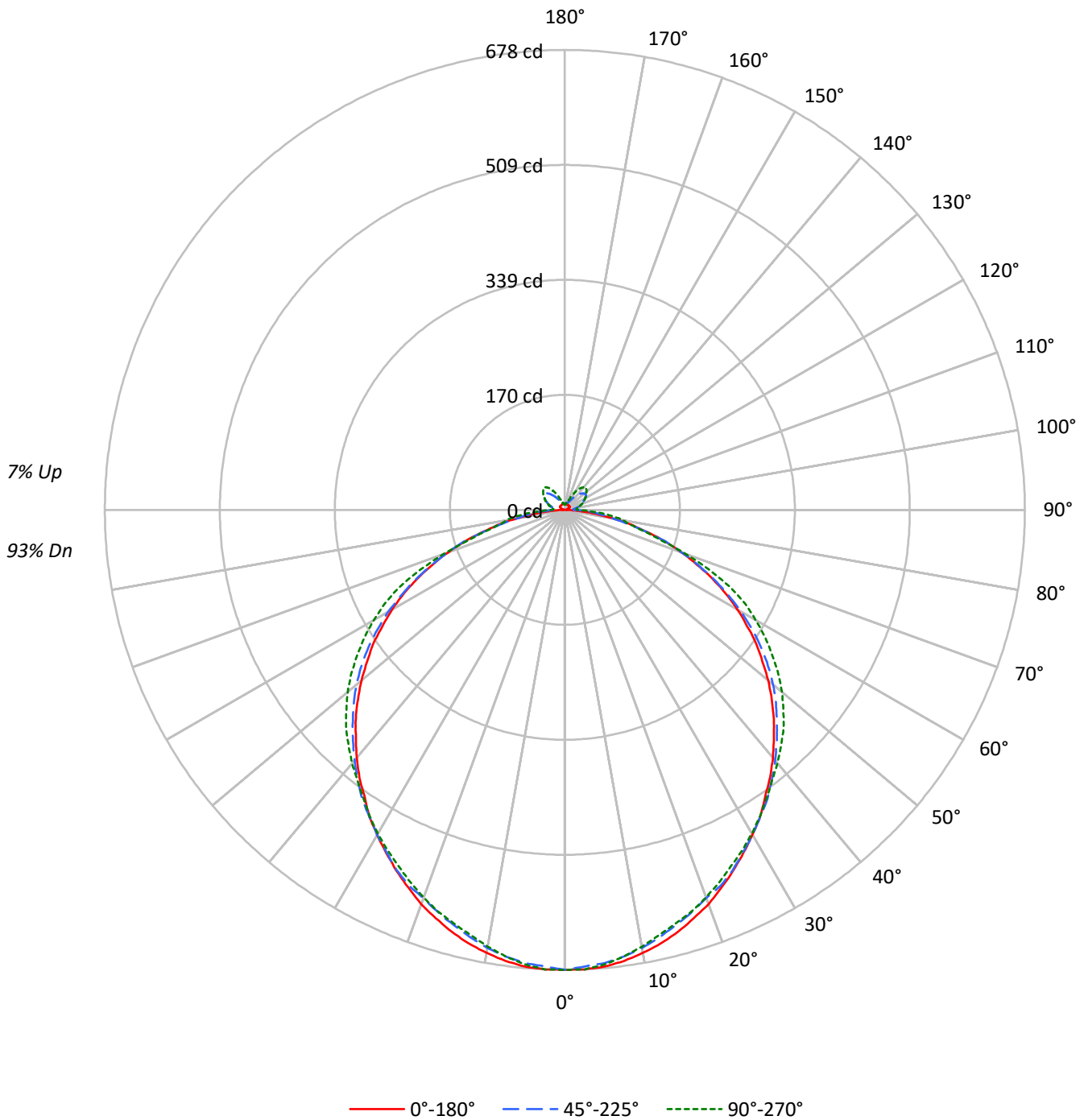
Lumens per Lamp: N/A
Luminaire Lumens: 2056.3 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: Direct

Input Watts (W): 18.1
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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	107	102	98	94	104	99	95	92	94	91	88	89	86	84	84	82	80	78
2	97	89	82	76	94	86	80	75	82	77	72	78	73	70	74	70	67	64
3	89	78	70	63	85	76	68	62	72	66	60	68	63	58	65	60	57	54
4	81	69	60	53	78	67	59	53	64	57	51	61	55	50	58	53	48	46
5	74	61	52	46	72	60	52	45	57	50	44	54	48	43	52	46	42	40
6	69	55	46	40	66	54	46	39	51	44	39	49	43	38	47	41	37	35
7	64	50	41	35	61	49	41	35	47	39	34	45	38	33	43	37	33	31
8	59	46	37	31	57	45	37	31	43	36	30	41	35	30	39	34	29	27
9	55	42	34	28	53	41	33	28	39	32	27	38	31	27	36	31	26	24
10	52	39	31	25	50	38	30	25	36	29	25	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2693	2693	2693
5°	2677	2589	2579
10°	2639	2480	2441
15°	2595	2367	2314
20°	2544	2265	2205
25°	2483	2185	2095
30°	2429	2084	2002
35°	2370	1997	1906
40°	2323	1901	1830
45°	2273	1804	1760
50°	2214	1710	1674
55°	2151	1591	1567
60°	2060	1445	1442
65°	1936	1260	1278
70°	1754	1045	977
75°	1475	783	674
80°	1128	509	554
85°	564	346	389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.8	3.1
10°-20°	179.7	8.7
20°-30°	269.6	13.1
30°-40°	325.2	15.8
40°-50°	343.4	16.7
50°-60°	318.5	15.5
60°-70°	245.1	11.9
70°-80°	131.7	6.4
80°-90°	44.4	2.2
90°-100°	14.4	0.7
100°-110°	20.8	1.0
110°-120°	26.1	1.3
120°-130°	26.6	1.3
130°-140°	22.3	1.1
140°-150°	14.3	0.7
150°-160°	6.7	0.3
160°-170°	2.9	0.1
170°-180°	0.9	0.0
0°-30°	513.1	25.0
0°-40°	838.3	40.8
0°-60°	1500.1	73.0
0°-90°	1921.3	93.4
90°-120°	61.4	3.0
90°-150°	124.5	6.1
90°-180°	135.0	6.6
0°-180°	2056.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	678	678	678	678	678	
5°	676	676	671	674	673	64
15°	644	643	634	632	631	182
25°	587	588	586	583	580	271
35°	515	521	520	519	518	323
45°	436	442	442	452	456	336
55°	345	349	353	367	373	307
65°	240	240	242	260	269	237
75°	124	123	123	118	118	133
85°	23	30	40	48	53	29
90°	1	8	14	18	19	2
95°	1	11	14	17	18	1
105°	4	20	22	23	23	4
115°	6	24	31	32	32	7
125°	8	19	38	39	39	7
135°	8	13	34	42	44	7
145°	8	11	22	35	38	5
155°	10	11	13	18	21	4
165°	10	10	11	11	11	3
175°	10	10	8	8	7	1
180°	8	8	8	8	8	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	678.0	678.0	678.0	678.0	678.0
2.5°	678.0	678.0	673.8	678.0	678.0
5°	675.9	675.9	670.6	673.8	672.7
7.5°	670.6	669.5	664.2	665.3	664.2
10°	663.2	663.2	655.8	655.8	653.7
12.5°	654.7	653.7	645.2	644.1	642.0
15°	644.1	643.1	633.6	632.5	631.4
17.5°	631.4	629.3	621.9	623.0	620.9
20°	618.8	616.6	609.2	611.3	608.2
22.5°	602.9	601.8	599.7	597.6	594.4
25°	587.0	588.1	586.0	582.8	579.6
27.5°	570.1	571.2	569.0	568.0	565.9
30°	553.2	555.3	553.2	553.2	551.1
32.5°	536.3	538.4	536.3	535.2	535.2
35°	515.1	521.4	520.4	519.3	518.3
37.5°	497.1	503.5	501.3	502.4	502.4
40°	477.0	483.4	482.3	486.5	487.6
42.5°	455.9	462.2	462.2	469.6	471.7
45°	435.8	442.1	442.1	451.6	455.9
47.5°	413.6	418.8	422.0	432.6	436.8
50°	391.3	395.6	400.9	412.5	417.8
52.5°	367.0	372.3	377.6	391.3	396.6
55°	344.8	349.0	353.3	367.0	373.4
57.5°	318.4	323.7	326.8	340.6	350.1
60°	294.0	297.2	300.4	315.2	324.7
62.5°	267.6	269.7	270.8	288.8	299.3
65°	240.1	240.1	242.2	260.2	268.7
67.5°	210.5	211.5	212.6	227.4	229.5
70°	183.0	180.9	183.0	191.4	189.3
72.5°	154.4	151.3	155.5	152.3	148.1
75°	123.8	122.7	122.7	118.5	118.5
77.5°	98.4	96.3	94.1	94.1	96.3
80°	70.9	71.9	69.8	79.3	86.7
82.5°	45.5	47.6	55.0	68.8	70.9
85°	23.3	29.6	40.2	47.6	52.9
87.5°	8.5	18.0	23.3	29.6	32.8
90°	1.1	8.5	13.8	18.0	19.0
92.5°	1.1	9.5	12.7	15.9	16.9
95°	1.1	10.6	13.8	16.9	18.0
97.5°	2.1	12.7	15.9	18.0	19.0
100°	2.1	14.8	18.0	19.0	20.1
102.5°	3.2	16.9	20.1	21.2	21.2
105°	4.2	20.1	22.2	23.3	23.3
107.5°	4.2	22.2	24.3	25.4	25.4
110°	5.3	24.3	26.4	27.5	27.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.3	25.4	28.6	29.6	29.6
115°	6.3	24.3	30.7	31.7	31.7
117.5°	7.4	24.3	32.8	32.8	32.8
120°	7.4	23.3	34.9	34.9	34.9
122.5°	8.5	21.2	36.0	37.0	37.0
125°	8.5	19.0	38.1	39.1	39.1
127.5°	8.5	18.0	38.1	40.2	40.2
130°	8.5	15.9	37.0	41.3	41.3
132.5°	8.5	13.8	36.0	43.4	43.4
135°	8.5	12.7	33.8	42.3	44.4
137.5°	8.5	11.6	31.7	42.3	44.4
140°	8.5	11.6	28.6	40.2	43.4
142.5°	8.5	11.6	25.4	38.1	41.3
145°	8.5	10.6	22.2	34.9	38.1
147.5°	8.5	10.6	19.0	30.7	33.8
150°	8.5	10.6	15.9	26.4	30.7
152.5°	8.5	10.6	13.8	22.2	26.4
155°	9.5	10.6	12.7	18.0	21.2
157.5°	9.5	10.6	11.6	14.8	15.9
160°	9.5	9.5	10.6	12.7	12.7
162.5°	9.5	9.5	10.6	10.6	10.6
165°	9.5	9.5	10.6	10.6	10.6
167.5°	9.5	9.5	10.6	10.6	9.5
170°	9.5	9.5	9.5	9.5	9.5
172.5°	9.5	9.5	9.5	9.5	8.5
175°	9.5	9.5	8.5	8.5	7.4
177.5°	9.5	9.5	9.5	8.5	7.4
180°	8.5	8.5	8.5	8.5	8.5

(END OF REPORT)