

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: P534523

Luminaire Tested: **S921DIP-W140-XX4XX-UDD-W-SC**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534523
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-W140-XX4XX-UDD-W-SC
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE CURVILINEAR HOUSING WITH SOLID UPLIGHT COVER
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

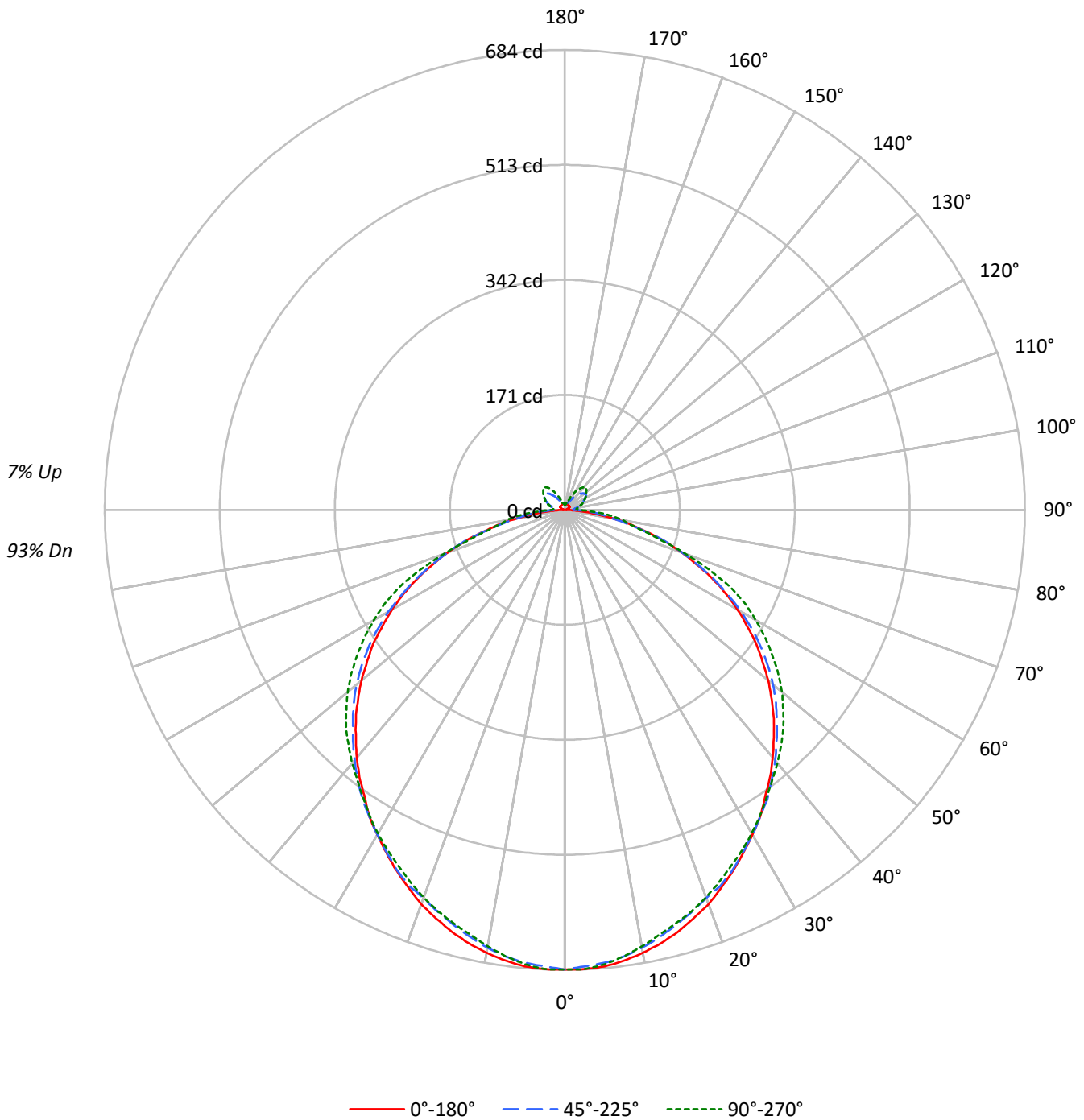
Lumens per Lamp: N/A
Luminaire Lumens: 2073.8 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: Direct

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°	2716	2716	2716
5°	2700	2611	2602
10°	2662	2502	2462
15°	2618	2387	2334
20°	2566	2284	2224
25°	2505	2203	2114
30°	2450	2102	2019
35°	2390	2014	1922
40°	2343	1917	1845
45°	2292	1820	1775
50°	2234	1725	1688
55°	2170	1605	1581
60°	2079	1457	1455
65°	1953	1271	1289
70°	1769	1054	986
75°	1487	790	680
80°	1138	514	559
85°	569	348	392



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	3.1
10°-20°	181.3	8.7
20°-30°	271.9	13.1
30°-40°	328.0	15.8
40°-50°	346.3	16.7
50°-60°	321.2	15.5
60°-70°	247.2	11.9
70°-80°	132.8	6.4
80°-90°	44.7	2.2
90°-100°	14.5	0.7
100°-110°	21.0	1.0
110°-120°	26.4	1.3
120°-130°	26.8	1.3
130°-140°	22.4	1.1
140°-150°	14.4	0.7
150°-160°	6.8	0.3
160°-170°	2.9	0.1
170°-180°	0.9	0.0
0°-30°	517.5	25.0
0°-40°	845.5	40.8
0°-60°	1513.0	73.0
0°-90°	1937.7	93.4
90°-120°	61.9	3.0
90°-150°	125.5	6.1
90°-180°	136.0	6.6
0°-180°	2073.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	684	684	684	684	684	
5°	682	682	676	680	678	65
15°	650	649	639	638	637	183
25°	592	593	591	588	585	273
35°	520	526	525	524	523	326
45°	440	446	446	456	460	339
55°	348	352	356	370	377	310
65°	242	242	244	262	271	239
75°	125	124	124	120	120	134
85°	24	30	40	48	53	30
90°	1	8	14	18	19	2
95°	1	11	14	17	18	1
105°	4	20	22	24	24	4
115°	6	24	31	32	32	7
125°	8	19	38	40	40	8
135°	8	13	34	43	45	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	8	1
180°	8	8	8	8	8	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	683.8	683.8	683.8	683.8	683.8
2.5°	683.8	683.8	679.5	683.8	683.8
5°	681.7	681.7	676.3	679.5	678.5
7.5°	676.3	675.3	669.9	671.0	669.9
10°	668.9	668.9	661.4	661.4	659.3
12.5°	660.3	659.3	650.7	649.7	647.5
15°	649.7	648.6	639.0	637.9	636.9
17.5°	636.9	634.7	627.3	628.3	626.2
20°	624.1	621.9	614.5	616.6	613.4
22.5°	608.1	607.0	604.9	602.7	599.5
25°	592.1	593.1	591.0	587.8	584.6
27.5°	575.0	576.1	573.9	572.9	570.7
30°	557.9	560.1	557.9	557.9	555.8
32.5°	540.8	543.0	540.8	539.8	539.8
35°	519.5	525.9	524.8	523.8	522.7
37.5°	501.4	507.8	505.6	506.7	506.7
40°	481.1	487.5	486.4	490.7	491.8
42.5°	459.8	466.2	466.2	473.6	475.8
45°	439.5	445.9	445.9	455.5	459.8
47.5°	417.1	422.4	425.6	436.3	440.6
50°	394.7	399.0	404.3	416.0	421.4
52.5°	370.2	375.5	380.8	394.7	400.0
55°	347.8	352.0	356.3	370.2	376.6
57.5°	321.1	326.4	329.6	343.5	353.1
60°	296.6	299.8	303.0	317.9	327.5
62.5°	269.9	272.0	273.1	291.2	301.9
65°	242.2	242.2	244.3	262.4	271.0
67.5°	212.3	213.4	214.4	229.4	231.5
70°	184.6	182.4	184.6	193.1	191.0
72.5°	155.7	152.5	156.8	153.6	149.3
75°	124.8	123.7	123.7	119.5	119.5
77.5°	99.2	97.1	94.9	94.9	97.1
80°	71.5	72.5	70.4	80.0	87.5
82.5°	45.9	48.0	55.5	69.3	71.5
85°	23.5	29.9	40.5	48.0	53.3
87.5°	8.5	18.1	23.5	29.9	33.1
90°	1.1	8.5	13.9	18.1	19.2
92.5°	1.1	9.6	12.8	16.0	17.1
95°	1.1	10.7	13.9	17.1	18.1
97.5°	2.1	12.8	16.0	18.1	19.2
100°	2.1	14.9	18.1	19.2	20.3
102.5°	3.2	17.1	20.3	21.3	21.3
105°	4.3	20.3	22.4	23.5	23.5
107.5°	4.3	22.4	24.5	25.6	25.6
110°	5.3	24.5	26.7	27.7	27.7



TEST NUMBER: P534523

CATALOG NUMBER: S921DIP-W140-XX4XX-UDD-W-SC

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.4	25.6	28.8	29.9	29.9
115°	6.4	24.5	30.9	32.0	32.0
117.5°	7.5	24.5	33.1	33.1	33.1
120°	7.5	23.5	35.2	35.2	35.2
122.5°	8.5	21.3	36.3	37.3	37.3
125°	8.5	19.2	38.4	39.5	39.5
127.5°	8.5	18.1	38.4	40.5	40.5
130°	8.5	16.0	37.3	41.6	41.6
132.5°	8.5	13.9	36.3	43.7	43.7
135°	8.5	12.8	34.1	42.7	44.8
137.5°	8.5	11.7	32.0	42.7	44.8
140°	8.5	11.7	28.8	40.5	43.7
142.5°	8.5	11.7	25.6	38.4	41.6
145°	8.5	10.7	22.4	35.2	38.4
147.5°	8.5	10.7	19.2	30.9	34.1
150°	8.5	10.7	16.0	26.7	30.9
152.5°	8.5	10.7	13.9	22.4	26.7
155°	9.6	10.7	12.8	18.1	21.3
157.5°	9.6	10.7	11.7	14.9	16.0
160°	9.6	9.6	10.7	12.8	12.8
162.5°	9.6	9.6	10.7	10.7	10.7
165°	9.6	9.6	10.7	10.7	10.7
167.5°	9.6	9.6	10.7	10.7	9.6
170°	9.6	9.6	9.6	9.6	9.6
172.5°	9.6	9.6	9.6	9.6	8.5
175°	9.6	9.6	8.5	8.5	7.5
177.5°	9.6	9.6	9.6	8.5	7.5
180°	8.5	8.5	8.5	8.5	8.5

(END OF REPORT)