

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: P534517

Luminaire Tested: **S921DIP-W130-XX4XX-UDD-W-SC**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534517
Test Lab: INNOVATION CENTER-P3
Issue Date: 6/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S921DIP-W130-XX4XX-UDD-W-SC
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE CURVILINEAR HOUSING WITH SOLID UPLIGHT COVER
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

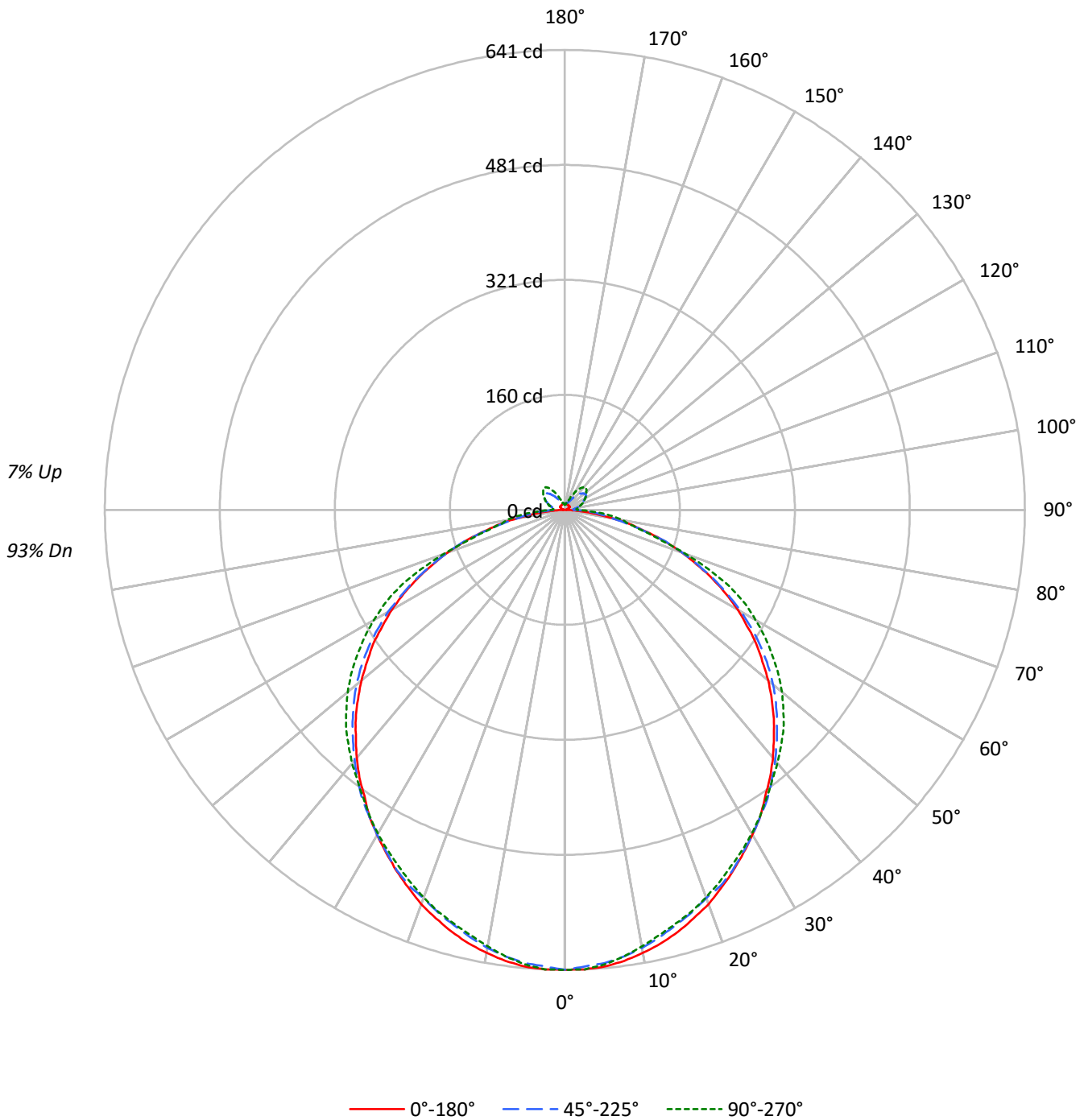
Lumens per Lamp: N/A
Luminaire Lumens: 1944.0 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 3.83' x H: 0.25')
CIE Type: Direct

Input Watts (W): 18.2
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°	2700	2700	2700
5°	2686	2610	2604
10°	2651	2514	2479
15°	2610	2411	2366
20°	2561	2319	2268
25°	2503	2248	2168
30°	2451	2156	2083
35°	2395	2077	1996
40°	2351	1988	1928
45°	2304	1899	1867
50°	2250	1811	1789
55°	2190	1698	1688
60°	2104	1554	1568
65°	1985	1369	1403
70°	1807	1148	1086
75°	1531	873	760
80°	1186	579	636
85°	609	403	457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.3	3.1
10°-20°	169.9	8.7
20°-30°	254.9	13.1
30°-40°	307.5	15.8
40°-50°	324.7	16.7
50°-60°	301.1	15.5
60°-70°	231.7	11.9
70°-80°	124.5	6.4
80°-90°	41.9	2.2
90°-100°	13.6	0.7
100°-110°	19.7	1.0
110°-120°	24.7	1.3
120°-130°	25.1	1.3
130°-140°	21.0	1.1
140°-150°	13.5	0.7
150°-160°	6.3	0.3
160°-170°	2.7	0.1
170°-180°	0.8	0.0
0°-30°	485.1	25.0
0°-40°	792.5	40.8
0°-60°	1418.3	73.0
0°-90°	1816.4	93.4
90°-120°	58.0	3.0
90°-150°	117.7	6.1
90°-180°	128.0	6.6
0°-180°	1944.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	641	641	641	641	641	
5°	639	639	634	637	636	61
15°	609	608	599	598	597	172
25°	555	556	554	551	548	256
35°	487	493	492	491	490	306
45°	412	418	418	427	431	318
55°	326	330	334	347	353	290
65°	227	227	229	246	254	224
75°	117	116	116	112	112	125
85°	22	28	38	45	50	28
90°	1	8	13	17	18	2
95°	1	10	13	16	17	1
105°	4	19	21	22	22	4
115°	6	23	29	30	30	6
125°	8	18	36	37	37	7
135°	8	12	32	40	42	6
145°	8	10	21	33	36	5
155°	9	10	12	17	20	4
165°	9	9	10	10	10	3
175°	9	9	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°	641	641	641	641	641
2.5°	641	641	637	641	641
5°	639	639	634	637	636
7.5°	634	633	628	629	628
10°	627	627	620	620	618
12.5°	619	618	610	609	607
15°	609	608	599	598	597
17.5°	597	595	588	589	587
20°	585	583	576	578	575
22.5°	570	569	567	565	562
25°	555	556	554	551	548
27.5°	539	540	538	537	535
30°	523	525	523	523	521
32.5°	507	509	507	506	506
35°	487	493	492	491	490
37.5°	470	476	474	475	475
40°	451	457	456	460	461
42.5°	431	437	437	444	446
45°	412	418	418	427	431
47.5°	391	396	399	409	413
50°	370	374	379	390	395
52.5°	347	352	357	370	375
55°	326	330	334	347	353
57.5°	301	306	309	322	331
60°	278	281	284	298	307
62.5°	253	255	256	273	283
65°	227	227	229	246	254
67.5°	199	200	201	215	217
70°	173	171	173	181	179
72.5°	146	143	147	144	140
75°	117	116	116	112	112
77.5°	93	91	89	89	91
80°	67	68	66	75	82
82.5°	43	45	52	65	67
85°	22	28	38	45	50
87.5°	8	17	22	28	31
90°	1	8	13	17	18
92.5°	1	9	12	15	16
95°	1	10	13	16	17
97.5°	2	12	15	17	18
100°	2	14	17	18	19
102.5°	3	16	19	20	20
105°	4	19	21	22	22
107.5°	4	21	23	24	24
110°	5	23	25	26	26



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6	24	27	28	28
115°	6	23	29	30	30
117.5°	7	23	31	31	31
120°	7	22	33	33	33
122.5°	8	20	34	35	35
125°	8	18	36	37	37
127.5°	8	17	36	38	38
130°	8	15	35	39	39
132.5°	8	13	34	41	41
135°	8	12	32	40	42
137.5°	8	11	30	40	42
140°	8	11	27	38	41
142.5°	8	11	24	36	39
145°	8	10	21	33	36
147.5°	8	10	18	29	32
150°	8	10	15	25	29
152.5°	8	10	13	21	25
155°	9	10	12	17	20
157.5°	9	10	11	14	15
160°	9	9	10	12	12
162.5°	9	9	10	10	10
165°	9	9	10	10	10
167.5°	9	9	10	10	9
170°	9	9	9	9	9
172.5°	9	9	9	9	8
175°	9	9	8	8	7
177.5°	9	9	9	8	7
180°	8	8	8	8	8

(END OF REPORT)