

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: P534471

Luminaire Tested: **S920DIP-W130-XX4XX-UDD-W-PC**

Issue Date: 6/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534471  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 6/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S920DIP-W130-XX4XX-UDD-W-PC  
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE  
WHITE RECTANGULAR HOUSING WITH PERFORATED UPLIGHT COVER  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

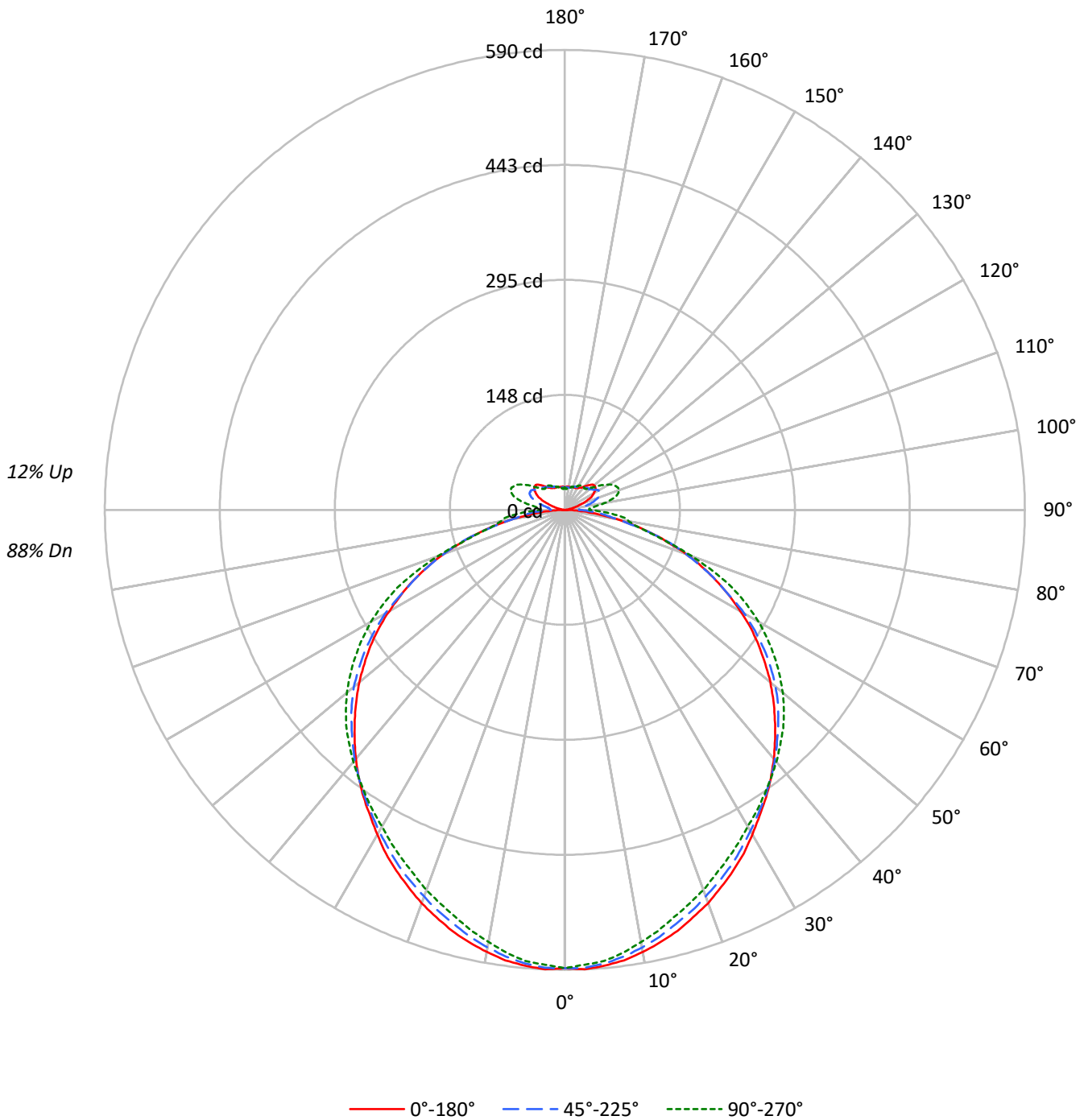
Lumens per Lamp: N/A  
Luminaire Lumens: 1923.0 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 3.83' x H: 0.25')  
CIE Type: Semi-Direct

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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88
1	106	101	96	92	102	97	93	90	91	88	85	85	82	80	79	77	75	73
2	96	87	81	75	92	85	78	73	79	74	69	74	70	66	69	66	63	60
3	87	77	68	62	84	74	67	61	69	63	58	65	60	55	61	57	53	50
4	80	68	59	52	76	66	57	51	61	55	49	58	52	47	54	49	45	43
5	73	60	51	45	70	58	50	44	55	48	42	52	46	41	49	43	39	37
6	67	54	45	39	65	53	44	38	50	42	37	47	40	36	44	39	34	32
7	62	49	40	34	60	48	39	34	45	38	33	42	36	31	40	35	30	28
8	58	45	36	30	56	43	35	30	41	34	29	39	33	28	37	31	27	25
9	54	41	33	27	52	40	32	27	38	31	26	36	30	25	34	29	25	23
10	51	38	30	25	49	37	29	24	35	28	24	33	27	23	31	26	22	20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2477	2477	2477
5°	2468	2404	2378
10°	2436	2311	2259
15°	2396	2214	2144
20°	2351	2126	2047
25°	2305	2045	1954
30°	2254	1962	1875
35°	2213	1891	1816
40°	2174	1827	1765
45°	2131	1758	1716
50°	2092	1687	1653
55°	2042	1586	1569
60°	1968	1456	1466
65°	1871	1279	1309
70°	1723	1095	1043
75°	1505	858	753
80°	1169	579	644
85°	665	467	558



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.2	2.9
10°-20°	155.0	8.1
20°-30°	231.6	12.0
30°-40°	280.3	14.6
40°-50°	298.8	15.5
50°-60°	279.7	14.5
60°-70°	217.7	11.3
70°-80°	121.2	6.3
80°-90°	46.8	2.4
90°-100°	22.7	1.2
100°-110°	40.5	2.1
110°-120°	49.8	2.6
120°-130°	43.0	2.2
130°-140°	31.3	1.6
140°-150°	22.8	1.2
150°-160°	15.1	0.8
160°-170°	8.6	0.4
170°-180°	2.8	0.1
0°-30°	441.8	23.0
0°-40°	722.1	37.6
0°-60°	1300.7	67.6
0°-90°	1686.5	87.7
90°-120°	113.0	5.9
90°-150°	210.1	10.9
90°-180°	237.0	12.3
0°-180°	1923.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	588	588	588	588	588	
5°	587	583	584	582	581	56
15°	559	553	550	544	541	158
25°	511	507	504	496	494	235
35°	450	449	448	446	446	282
45°	381	381	387	393	396	294
55°	304	304	312	321	328	271
65°	214	213	214	231	237	211
75°	115	112	114	112	111	121
85°	24	28	44	56	61	28
90°	0	9	18	26	31	1
95°	2	11	20	29	36	2
105°	14	22	36	57	68	15
115°	36	36	50	64	72	35
125°	48	45	45	51	54	42
135°	45	41	40	38	38	35
145°	35	35	36	38	38	22
155°	31	31	33	34	33	15
165°	30	30	30	30	30	9
175°	30	29	29	29	27	3
180°	29	29	29	29	29	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	588	588	588	588	588
2.5°	590	586	588	587	584
5°	587	583	584	582	581
7.5°	583	578	578	575	573
10°	576	571	570	565	563
12.5°	568	563	561	555	553
15°	559	553	550	544	541
17.5°	548	543	540	533	530
20°	537	532	528	521	519
22.5°	524	519	516	508	506
25°	511	507	504	496	494
27.5°	497	493	490	484	482
30°	481	479	476	470	469
32.5°	465	464	462	458	458
35°	450	449	448	446	446
37.5°	434	433	434	433	434
40°	417	416	419	420	422
42.5°	399	399	403	407	409
45°	381	381	387	393	396
47.5°	363	363	371	377	381
50°	344	344	353	360	365
52.5°	324	324	333	342	347
55°	304	304	312	321	328
57.5°	283	283	289	301	308
60°	260	261	266	279	287
62.5°	237	237	238	256	263
65°	214	213	214	231	237
67.5°	190	188	189	206	206
70°	165	162	165	174	172
72.5°	139	136	142	141	139
75°	115	112	114	112	111
77.5°	90	88	87	88	91
80°	66	67	66	77	83
82.5°	43	45	53	70	77
85°	24	28	44	56	61
87.5°	9	18	29	39	44
90°	0	9	18	26	31
92.5°	1	9	19	26	31
95°	2	11	20	29	36
97.5°	3	13	22	35	43
100°	6	15	26	43	53
102.5°	10	18	31	51	61
105°	14	22	36	57	68
107.5°	19	25	41	61	72
110°	25	29	45	63	74



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	30	32	48	64	74
115°	36	36	50	64	72
117.5°	40	39	50	63	70
120°	43	42	50	61	65
122.5°	46	44	48	56	60
125°	48	45	45	51	54
127.5°	49	45	43	46	48
130°	49	45	41	41	44
132.5°	48	43	41	38	40
135°	45	41	40	38	38
137.5°	42	39	39	38	37
140°	39	38	38	38	38
142.5°	36	36	37	38	38
145°	35	35	36	38	38
147.5°	33	33	35	37	37
150°	32	33	34	36	36
152.5°	32	32	33	35	34
155°	31	31	33	34	33
157.5°	31	31	32	33	33
160°	31	30	31	32	31
162.5°	31	30	31	31	31
165°	30	30	30	30	30
167.5°	30	30	29	30	29
170°	30	29	29	29	28
172.5°	30	29	29	29	28
175°	30	29	29	29	27
177.5°	29	29	29	29	27
180°	29	29	29	29	29

(END OF REPORT)