

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: P534518

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

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534518
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
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE CURVILINEAR HOUSING
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

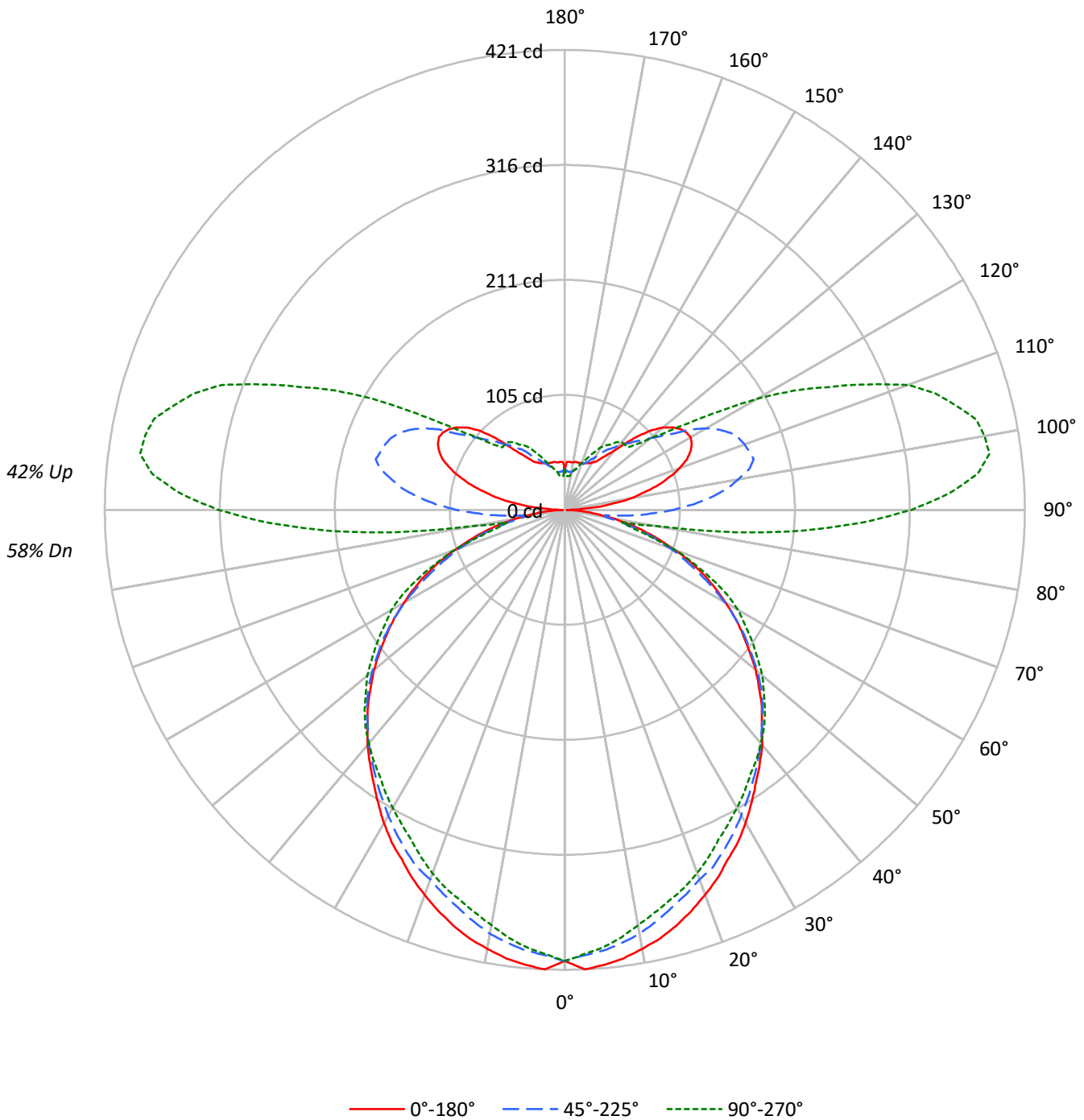
Lumens per Lamp: N/A
Luminaire Lumens: 2032.9 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.14 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 3.83' x H: 0.25')
CIE Type: General Diffuse

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	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	35	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°	1740	1740	1740
5°	1757	1667	1646
10°	1725	1597	1549
15°	1689	1517	1466
20°	1642	1449	1396
25°	1592	1396	1317
30°	1551	1332	1259
35°	1500	1271	1205
40°	1465	1216	1167
45°	1426	1163	1122
50°	1386	1099	1069
55°	1337	1022	999
60°	1287	925	935
65°	1224	801	812
70°	1117	677	655
75°	982	519	434
80°	779	333	652
85°	443	636	2002



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.6	1.9
10°-20°	107.4	5.3
20°-30°	158.7	7.8
30°-40°	189.3	9.3
40°-50°	198.4	9.8
50°-60°	181.6	8.9
60°-70°	138.5	6.8
70°-80°	75.7	3.7
80°-90°	99.1	4.9
90°-100°	186.7	9.2
100°-110°	213.3	10.5
110°-120°	178.9	8.8
120°-130°	117.6	5.8
130°-140°	68.9	3.4
140°-150°	41.8	2.1
150°-160°	23.3	1.1
160°-170°	11.6	0.6
170°-180°	3.5	0.2
0°-30°	304.7	15.0
0°-40°	494.0	24.3
0°-60°	874.0	43.0
0°-90°	1187.2	58.4
90°-120°	578.9	28.5
90°-150°	807.2	39.7
90°-180°	846.0	41.6
0°-180°	2032.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	413	413	413	413	413	
5°	418	415	405	404	402	40
15°	394	390	377	372	370	111
25°	353	352	344	338	333	163
35°	305	308	301	298	296	191
45°	255	258	256	259	259	196
55°	199	202	201	206	209	178
65°	140	139	134	145	147	138
75°	75	71	69	66	64	79
85°	16	21	60	162	219	19
90°	2	36	99	244	317	3
95°	30	62	135	295	379	31
105°	89	105	179	304	370	93
115°	127	130	167	231	266	124
125°	129	129	122	131	138	115
135°	96	90	88	83	81	74
145°	57	59	67	73	73	37
155°	47	46	48	53	55	22
165°	45	42	38	39	39	13
175°	44	42	35	32	31	4
180°	37	37	37	37	37	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	413	413	413	413	413
2.5°	421	418	408	408	407
5°	418	415	405	404	402
7.5°	414	410	400	398	395
10°	408	405	394	390	386
12.5°	402	398	386	382	378
15°	394	390	377	372	370
17.5°	385	381	369	367	363
20°	375	371	360	358	354
22.5°	365	362	354	348	344
25°	353	352	344	338	333
27.5°	343	341	334	328	324
30°	331	330	323	318	315
32.5°	318	319	312	309	306
35°	305	308	301	298	296
37.5°	293	297	290	289	288
40°	281	284	279	279	279
42.5°	267	271	267	270	270
45°	255	258	256	259	259
47.5°	241	244	244	247	247
50°	228	231	230	234	236
52.5°	213	216	215	221	222
55°	199	202	201	206	209
57.5°	185	188	185	191	195
60°	170	173	169	175	183
62.5°	155	156	151	161	167
65°	140	139	134	145	147
67.5°	124	122	118	126	127
70°	107	105	102	106	108
72.5°	90	88	86	87	83
75°	75	71	69	66	64
77.5°	59	56	52	51	54
80°	44	44	38	53	84
82.5°	29	31	37	115	158
85°	16	21	60	162	219
87.5°	7	25	79	203	271
90°	2	36	99	244	317
92.5°	14	50	118	274	353
95°	30	62	135	295	379
97.5°	46	77	150	309	392
100°	62	87	161	312	390
102.5°	75	97	173	310	385
105°	89	105	179	304	370
107.5°	101	112	177	295	355
110°	112	116	175	274	334



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	121	123	172	252	300
115°	127	130	167	231	266
117.5°	131	134	159	208	236
120°	133	135	149	186	203
122.5°	132	134	137	159	168
125°	129	129	122	131	138
127.5°	124	123	111	111	116
130°	117	113	102	96	101
132.5°	108	101	94	85	88
135°	96	90	88	83	81
137.5°	83	80	81	83	81
140°	71	72	77	81	81
142.5°	63	66	71	76	78
145°	57	59	67	73	73
147.5°	52	54	61	68	70
150°	50	52	55	63	66
152.5°	48	48	52	59	60
155°	47	46	48	53	55
157.5°	46	45	46	48	49
160°	45	43	43	45	46
162.5°	45	42	41	43	42
165°	45	42	38	39	39
167.5°	45	41	37	36	37
170°	44	41	35	35	33
172.5°	44	41	35	33	31
175°	44	42	35	32	31
177.5°	44	42	36	33	31
180°	37	37	37	37	37

(END OF REPORT)