

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: P534473

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

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534473
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
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE RECTANCULAR HOUSING
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

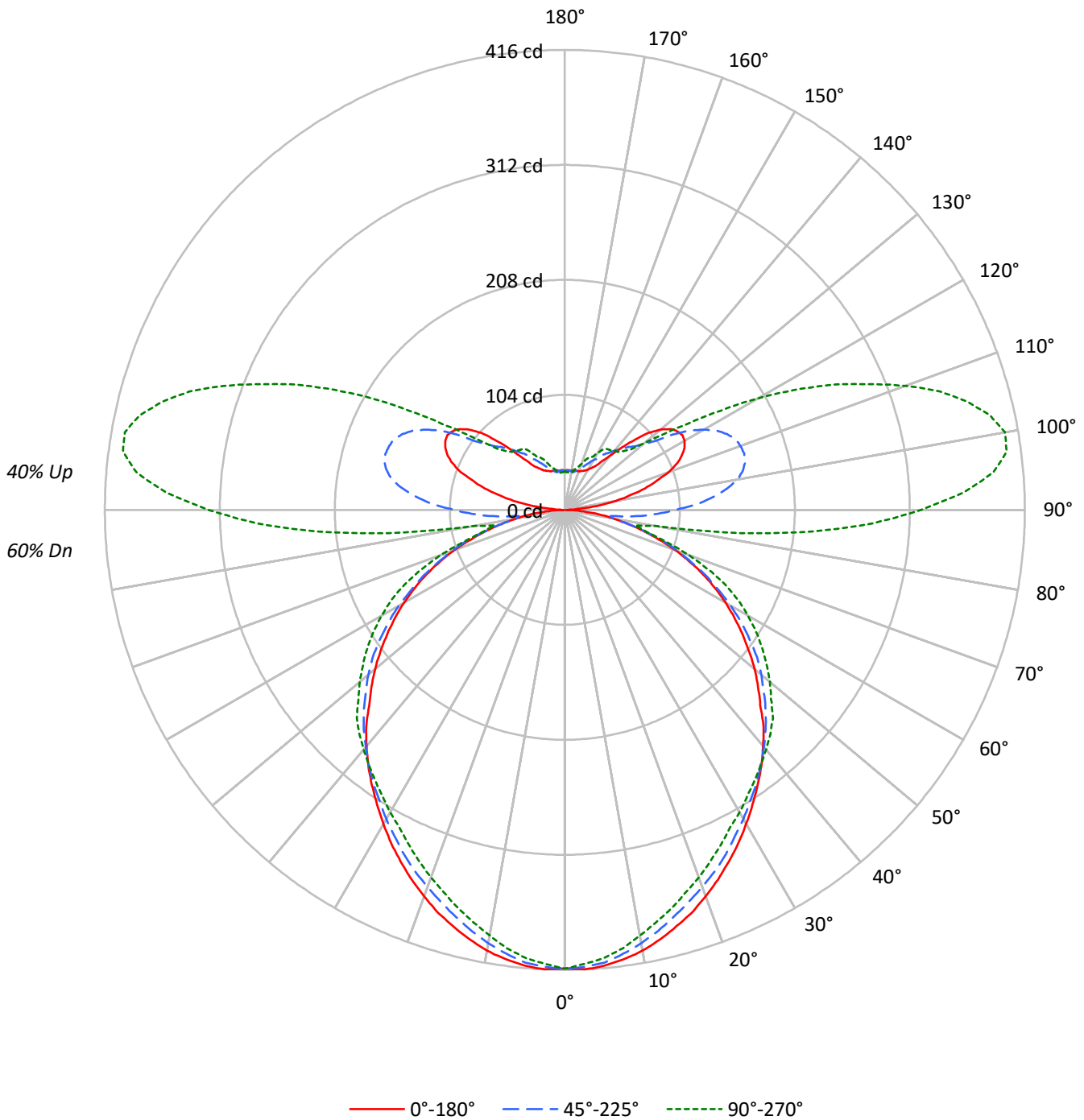
Lumens per Lamp: N/A
Luminaire Lumens: 2016.5 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 3.83' x H: 0.25')
CIE Type: General Diffuse

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	89	89	89	76	76	76	65	65	65	60
1	98	93	89	85	91	87	83	79	75	72	70	65	62	60	55	53	52	47
2	89	81	74	68	83	76	70	64	66	61	57	56	53	50	48	45	43	39
3	81	71	63	57	75	66	59	54	58	52	48	50	45	42	42	39	36	32
4	74	63	54	48	69	59	51	45	51	45	40	44	39	36	38	34	31	28
5	68	56	47	41	63	52	45	39	46	39	35	39	35	31	34	30	27	24
6	63	50	41	35	58	47	39	34	41	35	30	36	31	27	31	27	24	21
7	58	45	37	31	54	42	35	29	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	26	22	19	16
9	50	37	30	24	47	35	28	23	31	25	21	27	22	19	24	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°	1748	1748	1748
5°	1740	1692	1666
10°	1712	1614	1569
15°	1671	1533	1478
20°	1629	1461	1396
25°	1583	1396	1321
30°	1537	1332	1263
35°	1495	1275	1218
40°	1454	1221	1184
45°	1398	1167	1152
50°	1362	1109	1096
55°	1317	1037	1043
60°	1272	947	975
65°	1207	843	884
70°	1107	717	722
75°	955	565	515
80°	779	386	644
85°	471	689	2057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.7	1.9
10°-20°	107.4	5.3
20°-30°	158.0	7.8
30°-40°	188.7	9.4
40°-50°	198.4	9.8
50°-60°	183.2	9.1
60°-70°	143.3	7.1
70°-80°	81.3	4.0
80°-90°	102.2	5.1
90°-100°	186.4	9.2
100°-110°	207.8	10.3
110°-120°	172.9	8.6
120°-130°	113.2	5.6
130°-140°	62.8	3.1
140°-150°	37.3	1.8
150°-160°	21.0	1.0
160°-170°	10.7	0.5
170°-180°	3.4	0.2
0°-30°	304.1	15.1
0°-40°	492.8	24.4
0°-60°	874.4	43.4
0°-90°	1201.2	59.6
90°-120°	567.0	28.1
90°-150°	780.3	38.7
90°-180°	815.0	40.4
0°-180°	2016.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	415	415	415	415	415	
5°	414	411	411	408	407	39
15°	390	386	381	375	373	110
25°	351	348	344	337	334	162
35°	304	303	302	299	299	190
45°	250	251	257	263	266	194
55°	196	197	204	213	218	175
65°	138	137	141	156	160	136
75°	73	72	75	76	76	78
85°	17	22	65	168	225	20
90°	1	34	100	244	322	2
95°	16	57	135	301	389	20
105°	75	95	169	305	377	78
115°	117	117	162	228	268	114
125°	124	122	118	131	136	110
135°	90	83	80	72	75	70
145°	48	51	61	67	67	32
155°	39	39	45	50	52	18
165°	37	36	36	38	39	10
175°	36	36	35	35	34	3
180°	35	35	35	35	35	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	415	415	415	415	415
2.5°	416	413	414	413	411
5°	414	411	411	408	407
7.5°	410	406	405	401	400
10°	405	401	398	393	391
12.5°	398	394	390	385	382
15°	390	386	381	375	373
17.5°	382	377	372	366	363
20°	372	367	363	356	354
22.5°	362	358	354	346	344
25°	351	348	344	337	334
27.5°	340	337	333	327	324
30°	328	326	323	317	316
32.5°	316	315	312	308	307
35°	304	303	302	299	299
37.5°	292	291	291	290	291
40°	279	278	280	281	283
42.5°	266	266	269	273	275
45°	250	251	257	263	266
47.5°	237	238	244	251	253
50°	224	224	232	238	242
52.5°	210	211	219	226	230
55°	196	197	204	213	218
57.5°	182	182	189	199	205
60°	168	168	173	184	191
62.5°	153	153	156	171	177
65°	138	137	141	156	160
67.5°	122	121	124	139	140
70°	106	104	108	119	119
72.5°	89	88	93	97	95
75°	73	72	75	76	76
77.5°	58	58	58	60	65
80°	44	45	44	59	83
82.5°	31	31	42	116	161
85°	17	22	65	168	225
87.5°	7	25	84	209	279
90°	1	34	100	244	322
92.5°	6	47	120	278	361
95°	16	57	135	301	389
97.5°	32	68	148	317	403
100°	47	78	159	319	404
102.5°	60	87	165	315	394
105°	75	95	169	305	377
107.5°	87	102	170	289	356
110°	100	106	169	270	328



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	110	111	167	248	297
115°	117	117	162	228	268
117.5°	122	123	155	208	235
120°	125	126	145	185	202
122.5°	126	125	133	158	167
125°	124	122	118	131	136
127.5°	120	115	102	108	112
130°	113	105	92	89	94
132.5°	103	94	85	78	81
135°	90	83	80	72	75
137.5°	76	73	75	72	71
140°	64	65	70	70	70
142.5°	55	58	65	69	68
145°	48	51	61	67	67
147.5°	45	46	55	61	65
150°	42	43	52	57	59
152.5°	40	41	48	54	54
155°	39	39	45	50	52
157.5°	38	38	42	47	49
160°	37	37	40	45	44
162.5°	37	36	38	41	41
165°	37	36	36	38	39
167.5°	37	36	35	36	36
170°	36	36	35	35	34
172.5°	36	36	36	35	34
175°	36	36	35	35	34
177.5°	36	36	36	35	34
180°	35	35	35	35	35

(END OF REPORT)