

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: P534534

Luminaire Tested: **S921DIP-W330-XX4XX-UDD-W-PC**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35513)
Test Lab: INNOVATION CENTER
Issue Date: 6/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S921DIP-W330-XX4XX-UDD-W-PC
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE CURVILINEAR HOUSING WITH PERFORATED UPLIGHT COVER
Light Source: 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

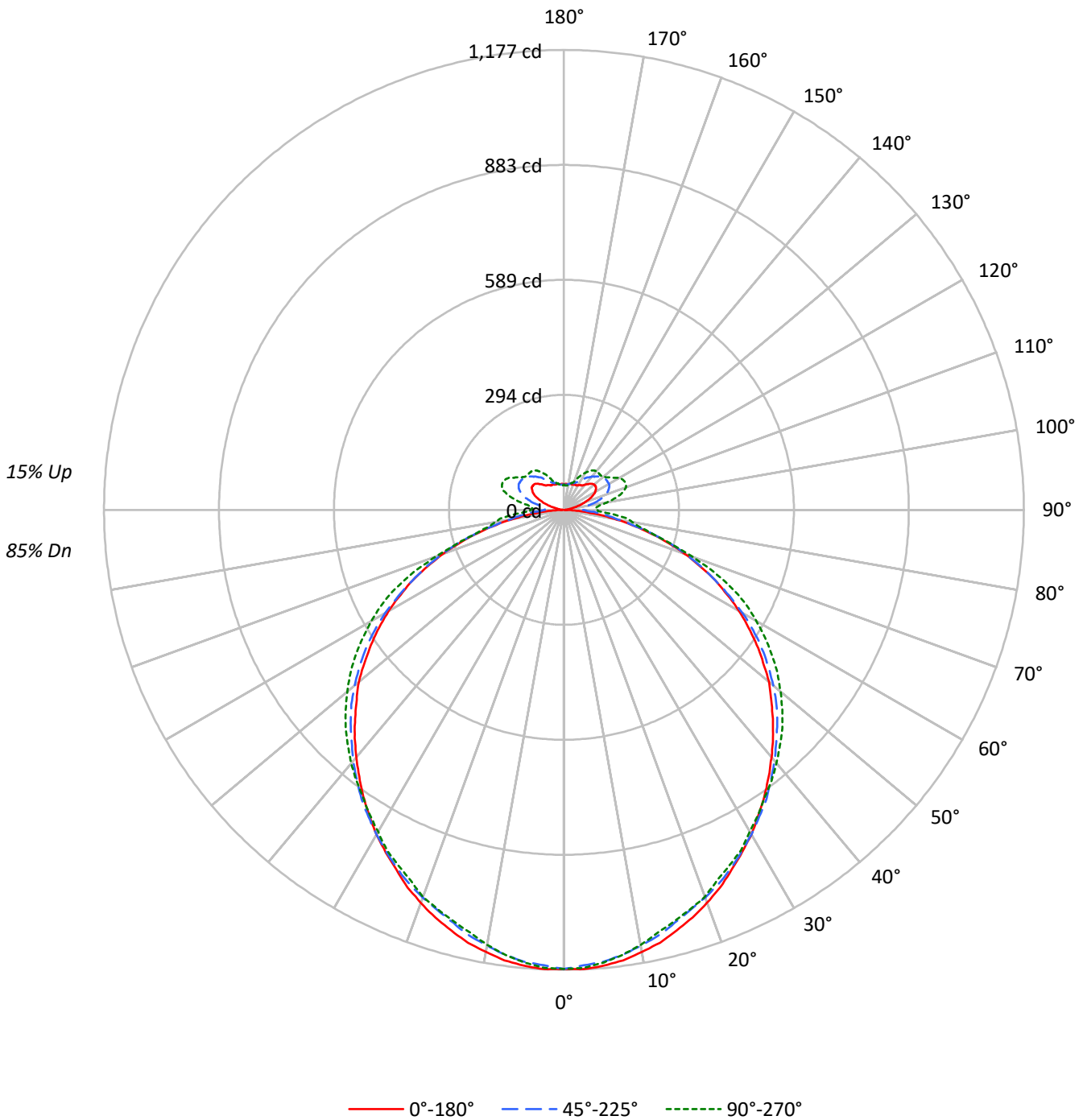
Lumens per Lamp: N/A
Luminaire Lumens: 3994.8 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: Semi-Direct

Input Watts (W): 38.5
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	115	115	115	115	111	111	111	111	103	103	103	95	95	95	88	88	88	85
1	105	100	96	92	101	96	92	89	89	86	83	83	80	78	77	75	73	70
2	95	87	80	74	91	84	77	72	78	73	68	72	68	64	67	64	61	58
3	87	76	68	61	83	73	66	60	68	62	57	63	58	54	59	55	51	48
4	79	67	58	52	76	65	57	51	60	54	48	56	51	46	53	48	44	41
5	73	60	51	44	69	58	50	43	54	47	42	50	44	40	47	42	38	35
6	67	54	45	39	64	52	44	38	49	42	36	46	39	35	43	37	33	31
7	62	49	40	34	59	47	39	33	44	37	32	41	35	31	39	34	30	27
8	58	44	36	30	55	43	35	30	40	33	28	38	32	27	36	30	26	24
9	54	41	32	27	52	39	32	27	37	30	26	35	29	25	33	28	24	22
10	50	37	30	24	48	36	29	24	34	28	23	32	26	22	31	25	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4667	4667	4667
5°	4637	4481	4459
10°	4571	4284	4221
15°	4490	4088	3996
20°	4400	3926	3822
25°	4297	3772	3628
30°	4212	3614	3455
35°	4117	3465	3298
40°	4024	3304	3176
45°	3941	3150	3050
50°	3878	2983	2899
55°	3759	2787	2732
60°	3630	2539	2525
65°	3445	2222	2262
70°	3148	1887	1789
75°	2690	1479	1318
80°	2053	1015	1132
85°	1073	763	903



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.4	2.8
10°-20°	310.8	7.8
20°-30°	466.6	11.7
30°-40°	564.0	14.1
40°-50°	597.7	15.0
50°-60°	557.4	14.0
60°-70°	435.2	10.9
70°-80°	245.9	6.2
80°-90°	97.9	2.4
90°-100°	57.5	1.4
100°-110°	98.3	2.5
110°-120°	125.2	3.1
120°-130°	113.5	2.8
130°-140°	88.2	2.2
140°-150°	62.5	1.6
150°-160°	37.6	0.9
160°-170°	19.9	0.5
170°-180°	6.2	0.2
0°-30°	887.8	22.2
0°-40°	1451.9	36.3
0°-60°	2607.0	65.3
0°-90°	3386.0	84.8
90°-120°	281.0	7.0
90°-150°	545.1	13.6
90°-180°	609.0	15.2
0°-180°	3994.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1175	1175	1175	1175	1175	
5°	1171	1171	1161	1165	1163	111
15°	1114	1112	1094	1094	1090	314
25°	1016	1018	1012	1008	1004	469
35°	895	905	903	901	897	560
45°	756	770	772	786	790	584
55°	603	613	619	639	651	539
65°	427	425	427	462	476	420
75°	226	222	232	230	232	240
85°	44	58	89	111	123	54
90°	2	24	48	73	85	3
95°	6	30	52	73	85	8
105°	36	62	91	129	149	39
115°	79	103	127	157	171	77
125°	101	113	133	139	145	89
135°	95	95	121	127	129	73
145°	77	81	101	117	123	49
155°	70	73	79	89	95	33
165°	68	68	70	70	70	19
175°	66	66	64	64	62	6
180°	64	64	64	64	64	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1174.9	1174.9	1174.9	1174.9	1174.9
2.5°	1176.9	1176.9	1166.9	1172.9	1172.9
5°	1170.9	1170.9	1160.8	1164.8	1162.8
7.5°	1162.8	1160.8	1148.7	1150.7	1148.7
10°	1148.7	1146.7	1132.6	1134.6	1130.6
12.5°	1134.6	1130.6	1116.5	1112.4	1108.4
15°	1114.5	1112.4	1094.3	1094.3	1090.3
17.5°	1094.3	1090.3	1074.2	1076.2	1072.1
20°	1070.1	1068.1	1056.0	1058.0	1054.0
22.5°	1045.9	1043.9	1035.9	1033.8	1025.8
25°	1015.7	1017.7	1011.7	1007.6	1003.6
27.5°	987.5	989.5	985.5	983.5	981.4
30°	959.3	963.3	959.3	955.2	951.2
32.5°	927.0	933.1	931.1	927.0	925.0
35°	894.8	904.9	902.9	900.8	896.8
37.5°	860.5	874.6	870.6	872.6	872.6
40°	826.3	840.4	838.4	844.4	846.4
42.5°	792.0	804.1	804.1	816.2	818.2
45°	755.7	769.8	771.9	786.0	790.0
47.5°	719.5	731.6	737.6	753.7	757.8
50°	685.2	693.3	699.3	717.4	723.5
52.5°	642.9	653.0	659.0	681.2	689.2
55°	602.6	612.6	618.7	638.8	650.9
57.5°	560.3	570.3	574.4	598.5	610.6
60°	517.9	524.0	528.0	552.2	568.3
62.5°	471.6	475.6	477.6	509.9	526.0
65°	427.2	425.2	427.2	461.5	475.6
67.5°	376.9	376.9	380.9	409.1	415.2
70°	328.5	326.5	330.5	348.6	346.6
72.5°	278.1	272.1	284.2	284.2	284.2
75°	225.7	221.7	231.8	229.7	231.8
77.5°	177.3	177.3	179.4	187.4	195.5
80°	129.0	135.0	139.1	163.2	177.3
82.5°	82.6	92.7	112.9	151.1	161.2
85°	44.3	58.4	88.7	110.8	122.9
87.5°	16.1	38.3	58.4	78.6	88.7
90°	2.0	24.2	48.4	72.6	84.6
92.5°	2.0	26.2	48.4	70.5	80.6
95°	6.0	30.2	52.4	72.6	84.6
97.5°	12.1	36.3	56.4	80.6	94.7
100°	18.1	44.3	64.5	96.7	114.9
102.5°	26.2	52.4	78.6	114.9	133.0
105°	36.3	62.5	90.7	129.0	149.1
107.5°	46.4	74.6	102.8	141.1	161.2
110°	58.4	84.6	112.9	149.1	169.3



TEST NUMBER: P534534

CATALOG NUMBER: S921DIP-W330-XX4XX-UDD-W-PC

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	68.5	94.7	120.9	153.2	171.3
115°	78.6	102.8	127.0	157.2	171.3
117.5°	86.7	108.8	131.0	157.2	169.3
120°	92.7	112.9	133.0	153.2	163.2
122.5°	96.7	112.9	133.0	147.1	153.2
125°	100.8	112.9	133.0	139.1	145.1
127.5°	100.8	110.8	131.0	133.0	137.0
130°	100.8	106.8	127.0	129.0	131.0
132.5°	98.7	100.8	124.9	127.0	129.0
135°	94.7	94.7	120.9	127.0	129.0
137.5°	88.7	90.7	114.9	129.0	129.0
140°	84.6	86.7	110.8	127.0	129.0
142.5°	78.6	84.6	104.8	122.9	127.0
145°	76.6	80.6	100.8	116.9	122.9
147.5°	74.6	78.6	92.7	110.8	116.9
150°	72.6	76.6	84.6	104.8	108.8
152.5°	70.5	74.6	80.6	98.7	102.8
155°	70.5	72.6	78.6	88.7	94.7
157.5°	70.5	72.6	74.6	80.6	84.6
160°	68.5	70.5	72.6	76.6	76.6
162.5°	68.5	68.5	72.6	72.6	72.6
165°	68.5	68.5	70.5	70.5	70.5
167.5°	68.5	68.5	68.5	68.5	68.5
170°	66.5	66.5	66.5	66.5	66.5
172.5°	66.5	66.5	64.5	64.5	62.5
175°	66.5	66.5	64.5	64.5	62.5
177.5°	66.5	66.5	64.5	64.5	62.5
180°	64.5	64.5	64.5	64.5	64.5

(END OF REPORT)