

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: P534489

Luminaire Tested: **S920DIP-W330-XX4XX-UDD-W-PC**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29792)
Test Lab: INNOVATION CENTER
Issue Date: 6/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S920DIP-W330-XX4XX-UDD-W-PC
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE RECTANCULAR HOUSING WITH PERFORATED UPLIGHT COVER
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

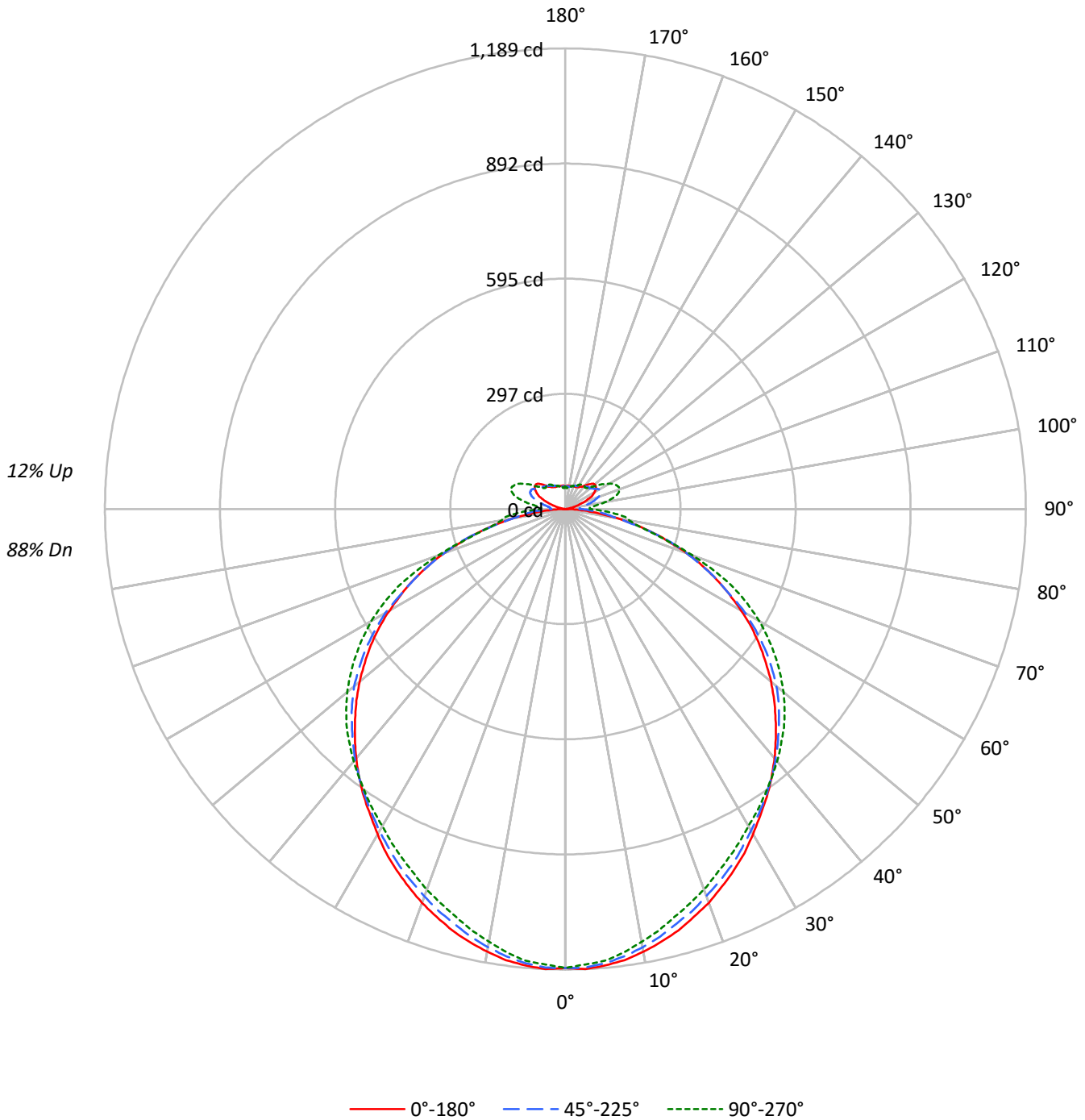
Lumens per Lamp: N/A
Luminaire Lumens: 3875.6 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: Semi-Direct

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



TEST NUMBER: P534489
CATALOG NUMBER: S920DIP-W330-XX4XX-UDD-W-PC

Luminous Intensity Polar Plot





TEST NUMBER: P534489

CATALOG NUMBER: S920DIP-W330-XX4XX-UDD-W-PC

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°	4707	4707	4707
5°	4685	4543	4490
10°	4619	4345	4236
15°	4539	4140	3996
20°	4449	3956	3793
25°	4357	3787	3599
30°	4257	3614	3433
35°	4172	3465	3305
40°	4093	3328	3191
45°	4004	3183	3081
50°	3924	3035	2947
55°	3822	2832	2774
60°	3672	2578	2569
65°	3479	2243	2272
70°	3187	1899	1789
75°	2763	1466	1272
80°	2117	971	1069
85°	1173	763	903



TEST NUMBER: P534489

CATALOG NUMBER: S920DIP-W330-XX4XX-UDD-W-PC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.3	2.9
10°-20°	312.4	8.1
20°-30°	466.7	12.0
30°-40°	565.0	14.6
40°-50°	602.3	15.5
50°-60°	563.8	14.5
60°-70°	438.8	11.3
70°-80°	244.3	6.3
80°-90°	94.3	2.4
90°-100°	45.7	1.2
100°-110°	81.7	2.1
110°-120°	100.4	2.6
120°-130°	86.7	2.2
130°-140°	63.0	1.6
140°-150°	45.9	1.2
150°-160°	30.5	0.8
160°-170°	17.3	0.4
170°-180°	5.6	0.1
0°-30°	890.3	23.0
0°-40°	1455.3	37.6
0°-60°	2621.4	67.6
0°-90°	3398.8	87.7
90°-120°	227.8	5.9
90°-150°	423.4	10.9
90°-180°	477.0	12.3
0°-180°	3875.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1185	1185	1185	1185	1185	
5°	1183	1175	1177	1173	1171	112
15°	1127	1114	1108	1096	1090	318
25°	1030	1022	1016	1000	996	474
35°	907	905	903	899	899	568
45°	768	768	780	792	798	593
55°	613	613	629	647	661	547
65°	431	429	431	466	478	426
75°	232	226	230	226	224	244
85°	48	56	89	113	123	57
90°	0	18	36	52	62	3
95°	4	22	40	58	73	5
105°	28	44	73	115	137	31
115°	73	73	101	129	145	70
125°	97	91	91	103	109	85
135°	91	83	81	77	77	70
145°	70	70	73	77	77	44
155°	62	62	66	68	66	29
165°	60	60	60	60	60	17
175°	60	58	58	58	54	6
180°	58	58	58	58	58	



TEST NUMBER: P534489

CATALOG NUMBER: S920DIP-W330-XX4XX-UDD-W-PC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1185.0	1185.0	1185.0	1185.0	1185.0
2.5°	1189.0	1181.0	1185.0	1183.0	1176.9
5°	1183.0	1174.9	1176.9	1172.9	1170.9
7.5°	1174.9	1164.8	1164.8	1158.8	1154.8
10°	1160.8	1150.7	1148.7	1138.6	1134.6
12.5°	1144.7	1134.6	1130.6	1118.5	1114.5
15°	1126.6	1114.5	1108.4	1096.3	1090.3
17.5°	1104.4	1094.3	1088.3	1074.2	1068.1
20°	1082.2	1072.1	1064.1	1050.0	1045.9
22.5°	1056.0	1045.9	1039.9	1023.8	1019.7
25°	1029.8	1021.8	1015.7	999.6	995.6
27.5°	1001.6	993.5	987.5	975.4	971.4
30°	969.4	965.3	959.3	947.2	945.2
32.5°	937.1	935.1	931.1	923.0	923.0
35°	906.9	904.9	902.9	898.8	898.8
37.5°	874.6	872.6	874.6	872.6	874.6
40°	840.4	838.4	844.4	846.4	850.5
42.5°	804.1	804.1	812.2	820.2	824.3
45°	767.8	767.8	779.9	792.0	798.1
47.5°	731.6	731.6	747.7	759.8	767.8
50°	693.3	693.3	711.4	725.5	735.6
52.5°	653.0	653.0	671.1	689.2	699.3
55°	612.7	612.7	628.8	646.9	661.0
57.5°	570.3	570.3	582.4	606.6	620.7
60°	524.0	526.0	536.1	562.3	578.4
62.5°	477.6	477.6	479.6	515.9	530.0
65°	431.3	429.3	431.3	465.5	477.6
67.5°	382.9	378.9	380.9	415.2	415.2
70°	332.5	326.5	332.5	350.7	346.6
72.5°	280.1	274.1	286.2	284.2	280.1
75°	231.8	225.7	229.7	225.7	223.7
77.5°	181.4	177.3	175.3	177.3	183.4
80°	133.0	135.0	133.0	155.2	167.3
82.5°	86.7	90.7	106.8	141.1	155.2
85°	48.4	56.4	88.7	112.9	122.9
87.5°	18.1	36.3	58.4	78.6	88.7
90°	0.0	18.1	36.3	52.4	62.5
92.5°	2.0	18.1	38.3	52.4	62.5
95°	4.0	22.2	40.3	58.4	72.6
97.5°	6.0	26.2	44.3	70.5	86.7
100°	12.1	30.2	52.4	86.7	106.8
102.5°	20.2	36.3	62.5	102.8	122.9
105°	28.2	44.3	72.6	114.9	137.0
107.5°	38.3	50.4	82.6	122.9	145.1
110°	50.4	58.4	90.7	127.0	149.1



TEST NUMBER: P534489

CATALOG NUMBER: S920DIP-W330-XX4XX-UDD-W-PC

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	60.5	64.5	96.7	129.0	149.1
115°	72.6	72.6	100.8	129.0	145.1
117.5°	80.6	78.6	100.8	127.0	141.1
120°	86.7	84.6	100.8	122.9	131.0
122.5°	92.7	88.7	96.7	112.9	120.9
125°	96.7	90.7	90.7	102.8	108.8
127.5°	98.7	90.7	86.7	92.7	96.7
130°	98.7	90.7	82.6	82.6	88.7
132.5°	96.7	86.7	82.6	76.6	80.6
135°	90.7	82.6	80.6	76.6	76.6
137.5°	84.6	78.6	78.6	76.6	74.6
140°	78.6	76.6	76.6	76.6	76.6
142.5°	72.6	72.6	74.6	76.6	76.6
145°	70.5	70.5	72.6	76.6	76.6
147.5°	66.5	66.5	70.5	74.6	74.6
150°	64.5	66.5	68.5	72.6	72.6
152.5°	64.5	64.5	66.5	70.5	68.5
155°	62.5	62.5	66.5	68.5	66.5
157.5°	62.5	62.5	64.5	66.5	66.5
160°	62.5	60.5	62.5	64.5	62.5
162.5°	62.5	60.5	62.5	62.5	62.5
165°	60.5	60.5	60.5	60.5	60.5
167.5°	60.5	60.5	58.4	60.5	58.4
170°	60.5	58.4	58.4	58.4	56.4
172.5°	60.5	58.4	58.4	58.4	56.4
175°	60.5	58.4	58.4	58.4	54.4
177.5°	58.4	58.4	58.4	58.4	54.4
180°	58.4	58.4	58.4	58.4	58.4

(END OF REPORT)