

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: P534546

Luminaire Tested: **S921DIP-W435-XX4XX-UDD-W-PC**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534546
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-W435-XX4XX-UDD-W-PC
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE CURVILINEAR HOUSING WITH PERFORATED UPLIGHT COVER
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

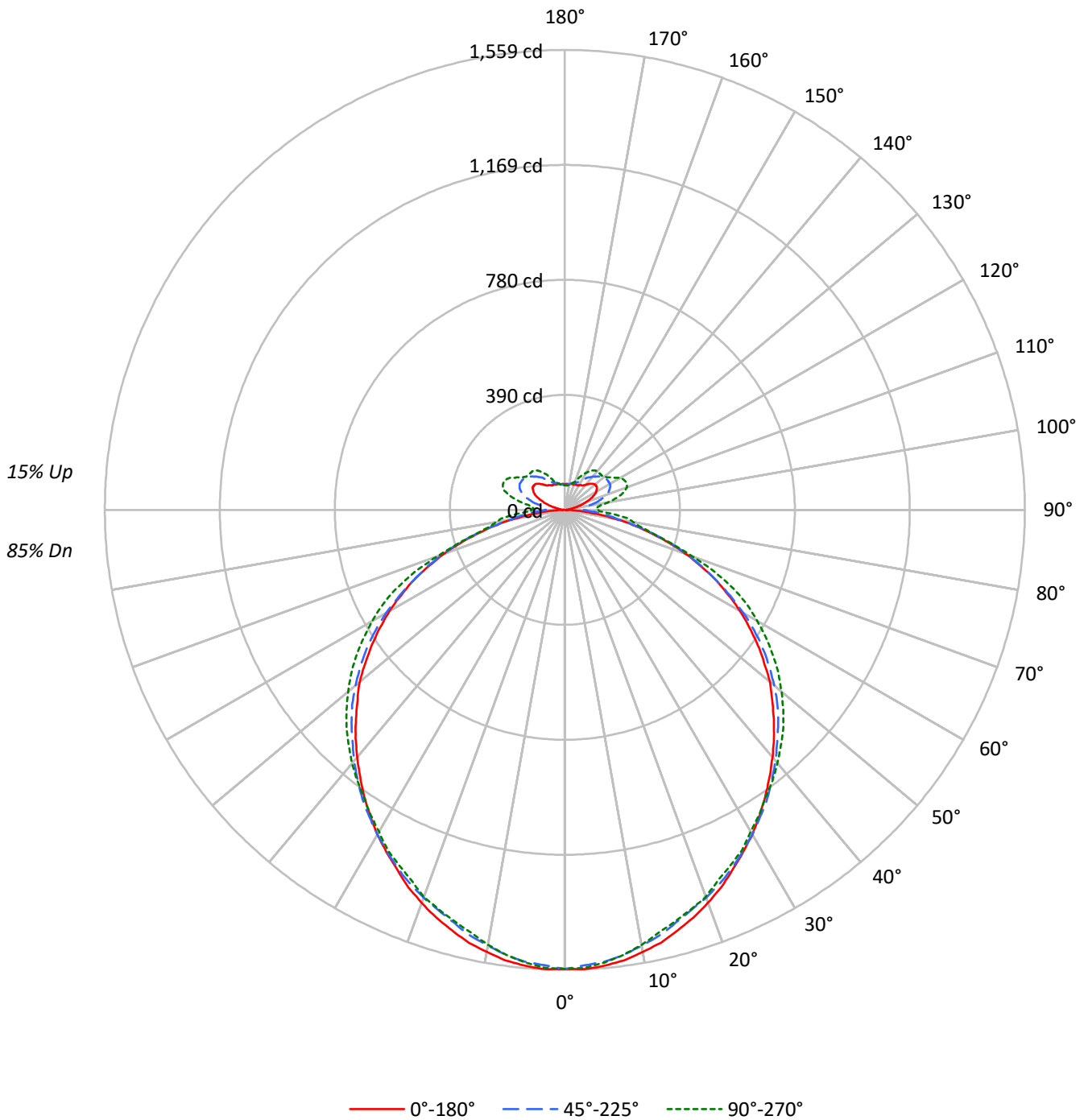
Lumens per Lamp: N/A
Luminaire Lumens: 5291.4 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: Semi-Direct

Input Watts (W): 50.7
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°	6182	6182	6182
5°	6142	5935	5906
10°	6055	5674	5591
15°	5947	5414	5293
20°	5828	5200	5063
25°	5692	4996	4806
30°	5579	4787	4576
35°	5453	4589	4368
40°	5330	4376	4207
45°	5220	4173	4039
50°	5136	3952	3839
55°	4979	3691	3619
60°	4808	3364	3344
65°	4564	2943	2996
70°	4170	2500	2369
75°	3563	1959	1746
80°	2718	1344	1500
85°	1422	1010	1196



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.2	2.8
10°-20°	411.7	7.8
20°-30°	618.1	11.7
30°-40°	747.1	14.1
40°-50°	791.7	15.0
50°-60°	738.3	14.0
60°-70°	576.5	10.9
70°-80°	325.8	6.2
80°-90°	129.6	2.5
90°-100°	76.2	1.4
100°-110°	130.1	2.5
110°-120°	165.8	3.1
120°-130°	150.4	2.8
130°-140°	116.8	2.2
140°-150°	82.7	1.6
150°-160°	49.8	0.9
160°-170°	26.3	0.5
170°-180°	8.3	0.2
0°-30°	1176.0	22.2
0°-40°	1923.1	36.3
0°-60°	3453.1	65.3
0°-90°	4485.0	84.8
90°-120°	372.1	7.0
90°-150°	722.0	13.6
90°-180°	806.0	15.2
0°-180°	5291.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1556	1556	1556	1556	1556	
5°	1551	1551	1538	1543	1540	147
15°	1476	1474	1450	1450	1444	416
25°	1345	1348	1340	1335	1329	621
35°	1185	1199	1196	1193	1188	742
45°	1001	1020	1022	1041	1046	773
55°	798	812	820	846	862	713
65°	566	563	566	611	630	557
75°	299	294	307	304	307	318
85°	59	77	118	147	163	72
90°	3	32	64	96	112	4
95°	8	40	69	96	112	10
105°	48	83	120	171	198	51
115°	104	136	168	208	227	101
125°	134	150	176	184	192	117
135°	126	126	160	168	171	96
145°	101	107	134	155	163	64
155°	93	96	104	118	126	43
165°	91	91	93	93	93	26
175°	88	88	85	85	83	8
180°	85	85	85	85	85	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1556.3	1556.3	1556.3	1556.3	1556.3
2.5°	1558.9	1558.9	1545.6	1553.6	1553.6
5°	1550.9	1550.9	1537.6	1542.9	1540.2
7.5°	1540.2	1537.6	1521.6	1524.2	1521.6
10°	1521.6	1518.9	1500.2	1502.9	1497.5
12.5°	1502.9	1497.5	1478.8	1473.5	1468.2
15°	1476.2	1473.5	1449.5	1449.5	1444.1
17.5°	1449.5	1444.1	1422.8	1425.5	1420.1
20°	1417.5	1414.8	1398.8	1401.4	1396.1
22.5°	1385.4	1382.8	1372.1	1369.4	1358.7
25°	1345.4	1348.0	1340.0	1334.7	1329.4
27.5°	1308.0	1310.7	1305.3	1302.7	1300.0
30°	1270.6	1276.0	1270.6	1265.3	1260.0
32.5°	1227.9	1235.9	1233.3	1227.9	1225.3
35°	1185.2	1198.6	1195.9	1193.2	1187.9
37.5°	1139.8	1158.5	1153.2	1155.9	1155.9
40°	1094.5	1113.1	1110.5	1118.5	1121.1
42.5°	1049.1	1065.1	1065.1	1081.1	1083.8
45°	1001.0	1019.7	1022.4	1041.1	1046.4
47.5°	953.0	969.0	977.0	998.4	1003.7
50°	907.6	918.3	926.3	950.3	958.3
52.5°	851.5	864.9	872.9	902.3	912.9
55°	798.2	811.5	819.5	846.2	862.2
57.5°	742.1	755.4	760.8	792.8	808.8
60°	686.0	694.0	699.4	731.4	752.8
62.5°	624.6	630.0	632.6	675.4	696.7
65°	565.9	563.2	565.9	611.3	630.0
67.5°	499.2	499.2	504.5	541.9	549.9
70°	435.1	432.4	437.8	461.8	459.1
72.5°	368.4	360.4	376.4	376.4	376.4
75°	299.0	293.6	307.0	304.3	307.0
77.5°	234.9	234.9	237.6	248.3	258.9
80°	170.8	178.9	184.2	216.2	234.9
82.5°	109.4	122.8	149.5	200.2	213.6
85°	58.7	77.4	117.5	146.8	162.8
87.5°	21.4	50.7	77.4	104.1	117.5
90°	2.7	32.0	64.1	96.1	112.1
92.5°	2.7	34.7	64.1	93.4	106.8
95°	8.0	40.0	69.4	96.1	112.1
97.5°	16.0	48.0	74.7	106.8	125.5
100°	24.0	58.7	85.4	128.1	152.2
102.5°	34.7	69.4	104.1	152.2	176.2
105°	48.0	82.8	120.1	170.8	197.5
107.5°	61.4	98.8	136.1	186.9	213.6
110°	77.4	112.1	149.5	197.5	224.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	90.8	125.5	160.2	202.9	226.9
115°	104.1	136.1	168.2	208.2	226.9
117.5°	114.8	144.1	173.5	208.2	224.2
120°	122.8	149.5	176.2	202.9	216.2
122.5°	128.1	149.5	176.2	194.9	202.9
125°	133.5	149.5	176.2	184.2	192.2
127.5°	133.5	146.8	173.5	176.2	181.5
130°	133.5	141.5	168.2	170.8	173.5
132.5°	130.8	133.5	165.5	168.2	170.8
135°	125.5	125.5	160.2	168.2	170.8
137.5°	117.5	120.1	152.2	170.8	170.8
140°	112.1	114.8	146.8	168.2	170.8
142.5°	104.1	112.1	138.8	162.8	168.2
145°	101.4	106.8	133.5	154.8	162.8
147.5°	98.8	104.1	122.8	146.8	154.8
150°	96.1	101.4	112.1	138.8	144.1
152.5°	93.4	98.8	106.8	130.8	136.1
155°	93.4	96.1	104.1	117.5	125.5
157.5°	93.4	96.1	98.8	106.8	112.1
160°	90.8	93.4	96.1	101.4	101.4
162.5°	90.8	90.8	96.1	96.1	96.1
165°	90.8	90.8	93.4	93.4	93.4
167.5°	90.8	90.8	90.8	90.8	90.8
170°	88.1	88.1	88.1	88.1	88.1
172.5°	88.1	88.1	85.4	85.4	82.8
175°	88.1	88.1	85.4	85.4	82.8
177.5°	88.1	88.1	85.4	85.4	82.8
180°	85.4	85.4	85.4	85.4	85.4

(END OF REPORT)