

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: P534507

Luminaire Tested: **S920DIP-W530-XX4XX-UDD-W-PC**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534507
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-W530-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

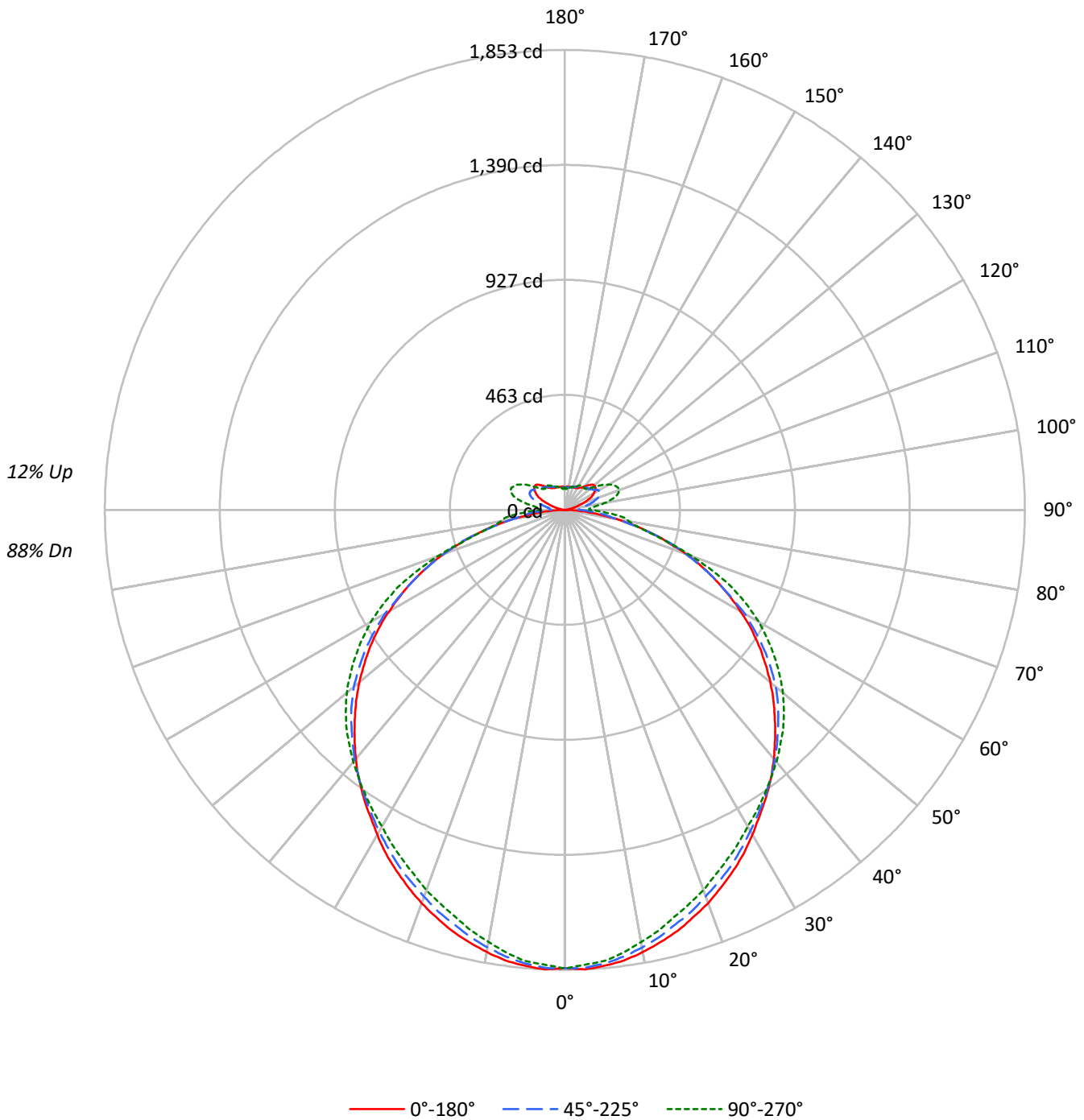
Lumens per Lamp: N/A
Luminaire Lumens: 6040.9 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: Semi-Direct

Input Watts (W): 68
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	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°	7337	7337	7337
5°	7303	7081	6998
10°	7200	6772	6603
15°	7075	6454	6228
20°	6936	6166	5912
25°	6791	5903	5610
30°	6635	5634	5351
35°	6503	5401	5152
40°	6379	5187	4974
45°	6241	4962	4802
50°	6115	4731	4594
55°	5957	4415	4324
60°	5724	4019	4005
65°	5421	3496	3541
70°	4967	2959	2788
75°	4305	2286	1983
80°	3299	1513	1665
85°	1827	1188	1408



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.5	2.9
10°-20°	486.9	8.1
20°-30°	727.4	12.0
30°-40°	880.6	14.6
40°-50°	938.8	15.5
50°-60°	878.7	14.5
60°-70°	684.0	11.3
70°-80°	380.9	6.3
80°-90°	147.0	2.4
90°-100°	71.3	1.2
100°-110°	127.3	2.1
110°-120°	156.5	2.6
120°-130°	135.1	2.2
130°-140°	98.3	1.6
140°-150°	71.5	1.2
150°-160°	47.5	0.8
160°-170°	26.9	0.4
170°-180°	8.7	0.1
0°-30°	1387.8	23.0
0°-40°	2268.4	37.6
0°-60°	4085.9	67.6
0°-90°	5297.8	87.7
90°-120°	355.1	5.9
90°-150°	660.0	10.9
90°-180°	743.0	12.3
0°-180°	6040.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1847	1847	1847	1847	1847	
5°	1844	1831	1834	1828	1825	175
15°	1756	1737	1728	1709	1699	495
25°	1605	1593	1583	1558	1552	740
35°	1414	1410	1407	1401	1401	885
45°	1197	1197	1216	1234	1244	924
55°	955	955	980	1008	1030	852
65°	672	669	672	726	744	663
75°	361	352	358	352	349	381
85°	75	88	138	176	192	89
90°	0	28	56	82	97	4
95°	6	35	63	91	113	7
105°	44	69	113	179	214	48
115°	113	113	157	201	226	109
125°	151	141	141	160	170	133
135°	141	129	126	119	119	109
145°	110	110	113	119	119	69
155°	97	97	104	107	104	46
165°	94	94	94	94	94	27
175°	94	91	91	91	85	9
180°	91	91	91	91	91	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1847.1	1847.1	1847.1	1847.1	1847.1
2.5°	1853.4	1840.8	1847.1	1843.9	1834.5
5°	1843.9	1831.4	1834.5	1828.2	1825.1
7.5°	1831.4	1815.7	1815.7	1806.2	1800.0
10°	1809.4	1793.7	1790.5	1774.8	1768.5
12.5°	1784.2	1768.5	1762.3	1743.4	1737.1
15°	1756.0	1737.1	1727.7	1708.9	1699.4
17.5°	1721.4	1705.7	1696.3	1674.3	1664.9
20°	1686.9	1671.2	1658.6	1636.6	1630.3
22.5°	1646.0	1630.3	1620.9	1595.8	1589.5
25°	1605.2	1592.6	1583.2	1558.1	1551.8
27.5°	1561.2	1548.6	1539.2	1520.4	1514.1
30°	1511.0	1504.7	1495.2	1476.4	1473.3
32.5°	1460.7	1457.6	1451.3	1438.7	1438.7
35°	1413.6	1410.4	1407.3	1401.0	1401.0
37.5°	1363.3	1360.2	1363.3	1360.2	1363.3
40°	1309.9	1306.8	1316.2	1319.3	1325.6
42.5°	1253.4	1253.4	1265.9	1278.5	1284.8
45°	1196.8	1196.8	1215.7	1234.5	1243.9
47.5°	1140.3	1140.3	1165.4	1184.3	1196.8
50°	1080.6	1080.6	1108.9	1130.9	1146.6
52.5°	1017.8	1017.8	1046.0	1074.3	1090.0
55°	954.9	954.9	980.1	1008.4	1030.3
57.5°	889.0	889.0	907.8	945.5	967.5
60°	816.7	819.9	835.6	876.4	901.5
62.5°	744.5	744.5	747.6	804.2	826.2
65°	672.2	669.1	672.2	725.6	744.5
67.5°	596.8	590.6	593.7	647.1	647.1
70°	518.3	508.9	518.3	546.6	540.3
72.5°	436.6	427.2	446.1	442.9	436.6
75°	361.2	351.8	358.1	351.8	348.7
77.5°	282.7	276.4	273.3	276.4	285.9
80°	207.3	210.5	207.3	241.9	260.7
82.5°	135.1	141.4	166.5	219.9	241.9
85°	75.4	88.0	138.2	175.9	191.6
87.5°	28.3	56.5	91.1	122.5	138.2
90°	0.0	28.3	56.5	81.7	97.4
92.5°	3.1	28.3	59.7	81.7	97.4
95°	6.3	34.6	62.8	91.1	113.1
97.5°	9.4	40.8	69.1	109.9	135.1
100°	18.8	47.1	81.7	135.1	166.5
102.5°	31.4	56.5	97.4	160.2	191.6
105°	44.0	69.1	113.1	179.1	213.6
107.5°	59.7	78.5	128.8	191.6	226.2
110°	78.5	91.1	141.4	197.9	232.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	94.2	100.5	150.8	201.0	232.5
115°	113.1	113.1	157.1	201.0	226.2
117.5°	125.7	122.5	157.1	197.9	219.9
120°	135.1	131.9	157.1	191.6	204.2
122.5°	144.5	138.2	150.8	175.9	188.5
125°	150.8	141.4	141.4	160.2	169.6
127.5°	153.9	141.4	135.1	144.5	150.8
130°	153.9	141.4	128.8	128.8	138.2
132.5°	150.8	135.1	128.8	119.4	125.7
135°	141.4	128.8	125.7	119.4	119.4
137.5°	131.9	122.5	122.5	119.4	116.2
140°	122.5	119.4	119.4	119.4	119.4
142.5°	113.1	113.1	116.2	119.4	119.4
145°	109.9	109.9	113.1	119.4	119.4
147.5°	103.7	103.7	109.9	116.2	116.2
150°	100.5	103.7	106.8	113.1	113.1
152.5°	100.5	100.5	103.7	109.9	106.8
155°	97.4	97.4	103.7	106.8	103.7
157.5°	97.4	97.4	100.5	103.7	103.7
160°	97.4	94.2	97.4	100.5	97.4
162.5°	97.4	94.2	97.4	97.4	97.4
165°	94.2	94.2	94.2	94.2	94.2
167.5°	94.2	94.2	91.1	94.2	91.1
170°	94.2	91.1	91.1	91.1	88.0
172.5°	94.2	91.1	91.1	91.1	88.0
175°	94.2	91.1	91.1	91.1	84.8
177.5°	91.1	91.1	91.1	91.1	84.8
180°	91.1	91.1	91.1	91.1	91.1

(END OF REPORT)