

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: P534552

Luminaire Tested: **S921DIP-W530-XX4XX-UDD-W-PC**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534552
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-W530-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

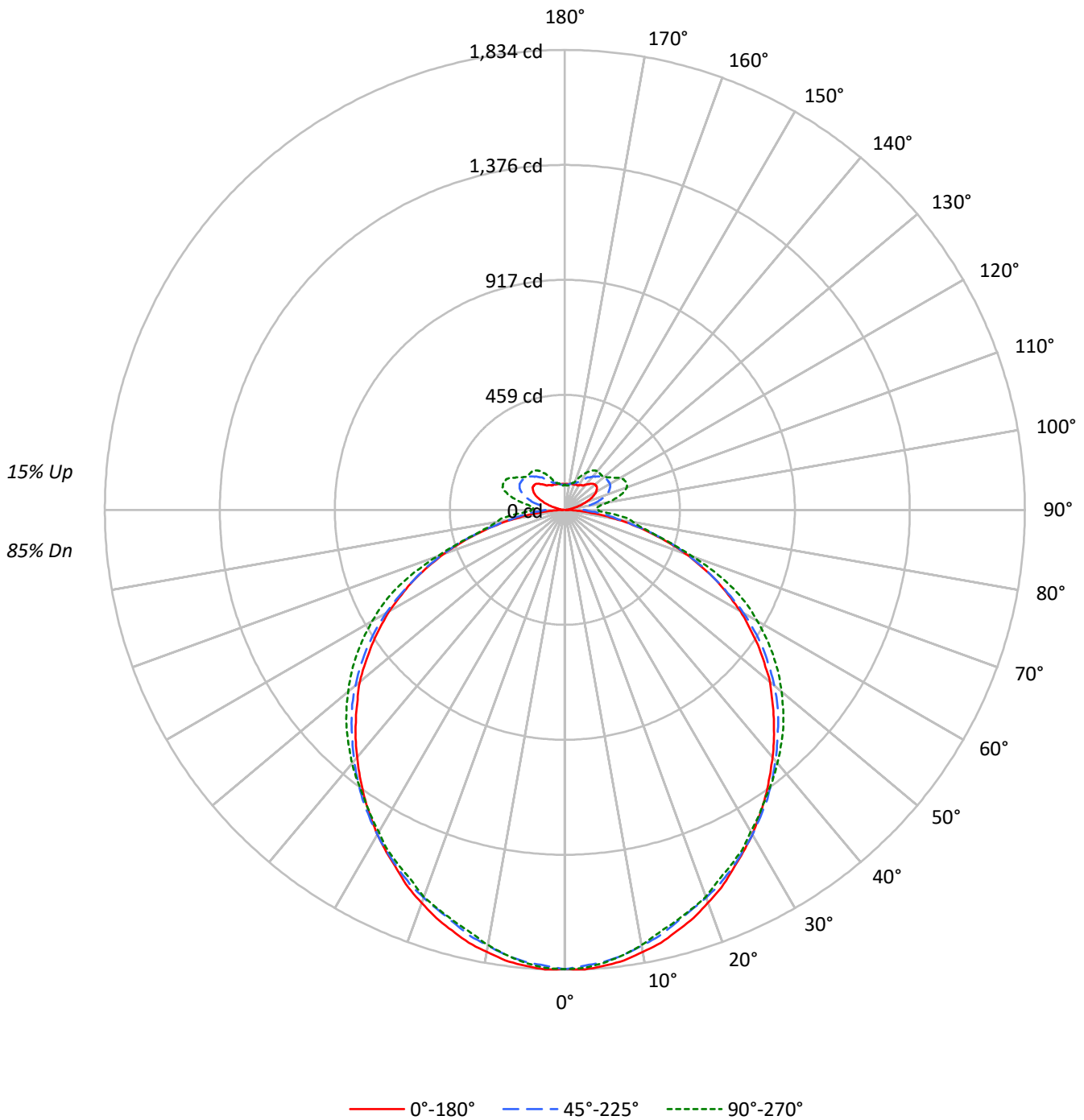
Lumens per Lamp: N/A
Luminaire Lumens: 6226.7 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: Semi-Direct

Input Watts (W): 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	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	36
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°	7274	7274	7274
5°	7228	6984	6950
10°	7125	6677	6580
15°	6998	6371	6228
20°	6858	6119	5957
25°	6698	5879	5656
30°	6565	5634	5385
35°	6416	5401	5140
40°	6272	5150	4950
45°	6143	4910	4754
50°	6044	4650	4518
55°	5859	4344	4258
60°	5658	3958	3935
65°	5371	3463	3526
70°	4907	2942	2788
75°	4193	2305	2054
80°	3199	1581	1765
85°	1674	1188	1408



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.1	2.8
10°-20°	484.5	7.8
20°-30°	727.3	11.7
30°-40°	879.2	14.1
40°-50°	931.7	15.0
50°-60°	868.8	14.0
60°-70°	678.3	10.9
70°-80°	383.3	6.2
80°-90°	152.6	2.4
90°-100°	89.7	1.4
100°-110°	153.2	2.5
110°-120°	195.1	3.1
120°-130°	176.9	2.8
130°-140°	137.5	2.2
140°-150°	97.4	1.6
150°-160°	58.6	0.9
160°-170°	31.0	0.5
170°-180°	9.7	0.2
0°-30°	1383.9	22.2
0°-40°	2263.0	36.3
0°-60°	4063.5	65.3
0°-90°	5277.7	84.8
90°-120°	437.9	7.0
90°-150°	849.6	13.6
90°-180°	949.0	15.2
0°-180°	6226.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1831	1831	1831	1831	1831	
5°	1825	1825	1809	1816	1812	173
15°	1737	1734	1706	1706	1699	490
25°	1583	1586	1577	1571	1564	731
35°	1395	1410	1407	1404	1398	873
45°	1178	1200	1203	1225	1231	910
55°	939	955	964	996	1015	839
65°	666	663	666	719	741	655
75°	352	346	361	358	361	374
85°	69	91	138	173	192	85
90°	3	38	75	113	132	5
95°	9	47	82	113	132	12
105°	56	97	141	201	232	60
115°	122	160	198	245	267	119
125°	157	176	207	217	226	138
135°	148	148	188	198	201	113
145°	119	126	157	182	192	76
155°	110	113	122	138	148	51
165°	107	107	110	110	110	30
175°	104	104	100	100	97	10
180°	100	100	100	100	100	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1831.4	1831.4	1831.4	1831.4	1831.4
2.5°	1834.5	1834.5	1818.8	1828.2	1828.2
5°	1825.1	1825.1	1809.4	1815.7	1812.5
7.5°	1812.5	1809.4	1790.5	1793.7	1790.5
10°	1790.5	1787.4	1765.4	1768.5	1762.3
12.5°	1768.5	1762.3	1740.3	1734.0	1727.7
15°	1737.1	1734.0	1705.7	1705.7	1699.4
17.5°	1705.7	1699.4	1674.3	1677.4	1671.2
20°	1668.0	1664.9	1646.0	1649.2	1642.9
22.5°	1630.3	1627.2	1614.6	1611.5	1598.9
25°	1583.2	1586.3	1576.9	1570.6	1564.4
27.5°	1539.2	1542.4	1536.1	1532.9	1529.8
30°	1495.2	1501.5	1495.2	1489.0	1482.7
32.5°	1445.0	1454.4	1451.3	1445.0	1441.8
35°	1394.7	1410.4	1407.3	1404.1	1397.9
37.5°	1341.3	1363.3	1357.0	1360.2	1360.2
40°	1287.9	1309.9	1306.8	1316.2	1319.3
42.5°	1234.5	1253.4	1253.4	1272.2	1275.4
45°	1178.0	1200.0	1203.1	1225.1	1231.4
47.5°	1121.4	1140.3	1149.7	1174.8	1181.1
50°	1068.0	1080.6	1090.0	1118.3	1127.7
52.5°	1002.1	1017.8	1027.2	1061.7	1074.3
55°	939.2	954.9	964.4	995.8	1014.6
57.5°	873.3	889.0	895.3	933.0	951.8
60°	807.3	816.7	823.0	860.7	885.8
62.5°	735.1	741.3	744.5	794.7	819.9
65°	665.9	662.8	665.9	719.4	741.3
67.5°	587.4	587.4	593.7	637.7	647.1
70°	512.0	508.9	515.2	543.4	540.3
72.5°	433.5	424.1	442.9	442.9	442.9
75°	351.8	345.5	361.2	358.1	361.2
77.5°	276.4	276.4	279.6	292.1	304.7
80°	201.0	210.5	216.7	254.4	276.4
82.5°	128.8	144.5	175.9	235.6	251.3
85°	69.1	91.1	138.2	172.8	191.6
87.5°	25.1	59.7	91.1	122.5	138.2
90°	3.1	37.7	75.4	113.1	131.9
92.5°	3.1	40.8	75.4	109.9	125.7
95°	9.4	47.1	81.7	113.1	131.9
97.5°	18.8	56.5	88.0	125.7	147.6
100°	28.3	69.1	100.5	150.8	179.1
102.5°	40.8	81.7	122.5	179.1	207.3
105°	56.5	97.4	141.4	201.0	232.5
107.5°	72.2	116.2	160.2	219.9	251.3
110°	91.1	131.9	175.9	232.5	263.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	106.8	147.6	188.5	238.7	267.0
115°	122.5	160.2	197.9	245.0	267.0
117.5°	135.1	169.6	204.2	245.0	263.9
120°	144.5	175.9	207.3	238.7	254.4
122.5°	150.8	175.9	207.3	229.3	238.7
125°	157.1	175.9	207.3	216.7	226.2
127.5°	157.1	172.8	204.2	207.3	213.6
130°	157.1	166.5	197.9	201.0	204.2
132.5°	153.9	157.1	194.8	197.9	201.0
135°	147.6	147.6	188.5	197.9	201.0
137.5°	138.2	141.4	179.1	201.0	201.0
140°	131.9	135.1	172.8	197.9	201.0
142.5°	122.5	131.9	163.3	191.6	197.9
145°	119.4	125.7	157.1	182.2	191.6
147.5°	116.2	122.5	144.5	172.8	182.2
150°	113.1	119.4	131.9	163.3	169.6
152.5°	109.9	116.2	125.7	153.9	160.2
155°	109.9	113.1	122.5	138.2	147.6
157.5°	109.9	113.1	116.2	125.7	131.9
160°	106.8	109.9	113.1	119.4	119.4
162.5°	106.8	106.8	113.1	113.1	113.1
165°	106.8	106.8	109.9	109.9	109.9
167.5°	106.8	106.8	106.8	106.8	106.8
170°	103.7	103.7	103.7	103.7	103.7
172.5°	103.7	103.7	100.5	100.5	97.4
175°	103.7	103.7	100.5	100.5	97.4
177.5°	103.7	103.7	100.5	100.5	97.4
180°	100.5	100.5	100.5	100.5	100.5

(END OF REPORT)