

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: P534559

Luminaire Tested: **S921DIP-W540-XX4XX-UDD-W-SC**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35514)
Test Lab: INNOVATION CENTER
Issue Date: 6/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S921DIP-W540-XX4XX-UDD-W-SC
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE CURVILINEAR HOUSING WITH SOLID UPLIGHT COVER
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

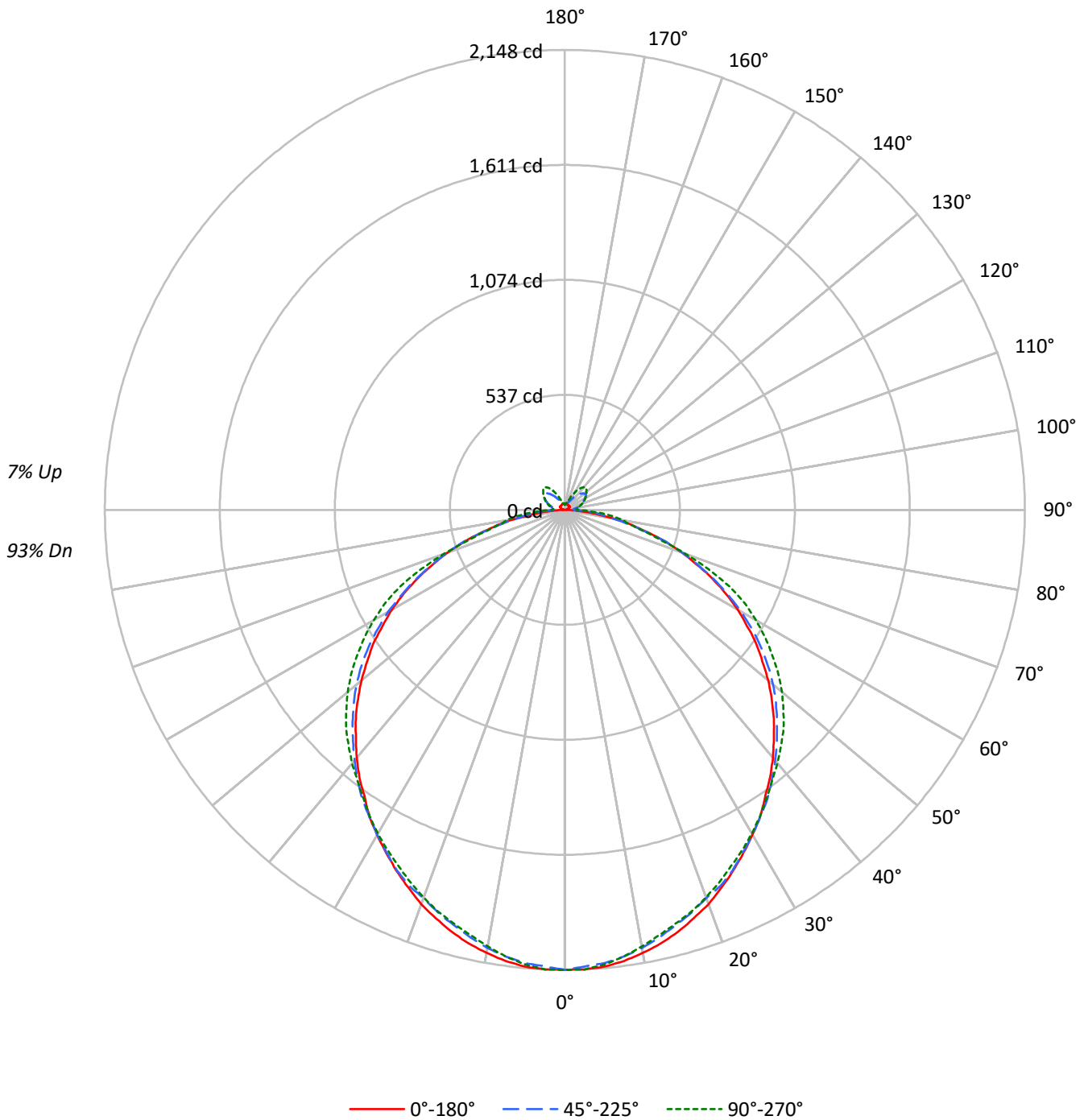
Lumens per Lamp: N/A
Luminaire Lumens: 6514.5 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: Direct

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	107	102	98	94	104	99	95	92	94	91	88	89	86	84	84	82	80	78
2	97	89	82	76	94	86	80	75	82	77	72	78	73	70	74	70	67	64
3	89	78	70	63	85	76	68	62	72	66	60	68	63	58	65	60	57	54
4	81	69	60	53	78	67	59	53	64	57	51	61	55	50	58	53	48	46
5	74	61	52	46	72	60	52	45	57	50	44	54	48	43	52	46	42	40
6	69	55	46	40	66	54	46	39	51	44	39	49	43	38	47	41	37	35
7	64	50	41	35	61	49	41	35	47	39	34	45	38	33	43	37	33	31
8	59	46	37	31	57	45	37	31	43	36	30	41	35	30	39	34	29	27
9	55	42	34	28	53	41	33	28	39	32	27	38	31	27	36	31	26	24
10	52	39	31	25	50	38	30	25	36	29	25	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8532	8532	8532
5°	8480	8201	8172
10°	8361	7858	7732
15°	8222	7498	7332
20°	8060	7176	6987
25°	7868	6922	6639
30°	7696	6603	6341
35°	7508	6327	6038
40°	7360	6022	5796
45°	7200	5717	5575
50°	7017	5418	5303
55°	6815	5041	4965
60°	6529	4577	4570
65°	6135	3991	4049
70°	5556	3310	3095
75°	4673	2481	2134
80°	3573	1614	1755
85°	1786	1094	1232



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.1	3.1
10°-20°	569.4	8.7
20°-30°	854.1	13.1
30°-40°	1030.3	15.8
40°-50°	1088.0	16.7
50°-60°	1009.0	15.5
60°-70°	776.5	11.9
70°-80°	417.1	6.4
80°-90°	140.5	2.2
90°-100°	45.7	0.7
100°-110°	65.9	1.0
110°-120°	82.8	1.3
120°-130°	84.2	1.3
130°-140°	70.5	1.1
140°-150°	45.3	0.7
150°-160°	21.3	0.3
160°-170°	9.2	0.1
170°-180°	2.8	0.0
0°-30°	1625.5	25.0
0°-40°	2655.8	40.8
0°-60°	4752.8	73.0
0°-90°	6086.9	93.4
90°-120°	194.4	3.0
90°-150°	394.5	6.1
90°-180°	428.0	6.6
0°-180°	6514.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2148	2148	2148	2148	2148	
5°	2141	2141	2124	2135	2131	203
15°	2041	2037	2007	2004	2000	575
25°	1860	1863	1856	1846	1836	857
35°	1632	1652	1649	1645	1642	1024
45°	1381	1401	1401	1431	1444	1064
55°	1092	1106	1119	1163	1183	973
65°	761	761	767	824	851	750
75°	392	389	389	375	375	420
85°	74	94	127	151	168	93
90°	3	27	44	57	60	5
95°	3	34	44	54	57	4
105°	13	64	70	74	74	13
115°	20	77	97	100	100	21
125°	27	60	121	124	124	24
135°	27	40	107	134	141	21
145°	27	34	70	111	121	17
155°	30	34	40	57	67	13
165°	30	30	34	34	34	9
175°	30	30	27	27	24	3
180°	27	27	27	27	27	

TEST NUMBER: P534559

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2148.0	2148.0	2148.0	2148.0	2148.0
2.5°	2148.0	2148.0	2134.6	2148.0	2148.0
5°	2141.3	2141.3	2124.5	2134.6	2131.2
7.5°	2124.5	2121.2	2104.4	2107.8	2104.4
10°	2101.1	2101.1	2077.6	2077.6	2070.9
12.5°	2074.3	2070.9	2044.1	2040.8	2034.1
15°	2040.8	2037.4	2007.2	2003.9	2000.5
17.5°	2000.5	1993.8	1970.4	1973.7	1967.0
20°	1960.3	1953.6	1930.2	1936.9	1926.8
22.5°	1910.1	1906.7	1900.0	1893.3	1883.3
25°	1859.8	1863.2	1856.5	1846.4	1836.3
27.5°	1806.2	1809.5	1802.8	1799.5	1792.8
30°	1752.6	1759.3	1752.6	1752.6	1745.9
32.5°	1699.0	1705.7	1699.0	1695.6	1695.6
35°	1631.9	1652.0	1648.7	1645.3	1642.0
37.5°	1575.0	1595.1	1588.4	1591.7	1591.7
40°	1511.3	1531.4	1528.1	1541.5	1544.8
42.5°	1444.3	1464.4	1464.4	1487.8	1494.5
45°	1380.6	1400.7	1400.7	1430.9	1444.3
47.5°	1310.2	1327.0	1337.0	1370.6	1384.0
50°	1239.9	1253.3	1270.0	1306.9	1323.6
52.5°	1162.8	1179.6	1196.3	1239.9	1256.6
55°	1092.4	1105.8	1119.2	1162.8	1182.9
57.5°	1008.7	1025.4	1035.5	1079.0	1109.2
60°	931.6	941.6	951.7	998.6	1028.8
62.5°	847.8	854.5	857.9	914.8	948.3
65°	760.7	760.7	767.4	824.3	851.2
67.5°	666.8	670.2	673.6	720.5	727.2
70°	579.7	573.0	579.7	606.5	599.8
72.5°	489.2	479.2	492.6	482.5	469.1
75°	392.1	388.7	388.7	375.3	375.3
77.5°	311.6	304.9	298.2	298.2	304.9
80°	224.5	227.9	221.2	251.3	274.8
82.5°	144.1	150.8	174.3	217.8	224.5
85°	73.7	93.8	127.3	150.8	167.6
87.5°	26.8	57.0	73.7	93.8	103.9
90°	3.4	26.8	43.6	57.0	60.3
92.5°	3.4	30.2	40.2	50.3	53.6
95°	3.4	33.5	43.6	53.6	57.0
97.5°	6.7	40.2	50.3	57.0	60.3
100°	6.7	46.9	57.0	60.3	63.7
102.5°	10.1	53.6	63.7	67.0	67.0
105°	13.4	63.7	70.4	73.7	73.7
107.5°	13.4	70.4	77.1	80.4	80.4
110°	16.8	77.1	83.8	87.1	87.1



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CATALOG NUMBER: S921DIP-W540-XX4XX-UDD-W-SC

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	20.1	80.4	90.5	93.8	93.8
115°	20.1	77.1	97.2	100.5	100.5
117.5°	23.5	77.1	103.9	103.9	103.9
120°	23.5	73.7	110.6	110.6	110.6
122.5°	26.8	67.0	113.9	117.3	117.3
125°	26.8	60.3	120.6	124.0	124.0
127.5°	26.8	57.0	120.6	127.3	127.3
130°	26.8	50.3	117.3	130.7	130.7
132.5°	26.8	43.6	113.9	137.4	137.4
135°	26.8	40.2	107.2	134.0	140.7
137.5°	26.8	36.9	100.5	134.0	140.7
140°	26.8	36.9	90.5	127.3	137.4
142.5°	26.8	36.9	80.4	120.6	130.7
145°	26.8	33.5	70.4	110.6	120.6
147.5°	26.8	33.5	60.3	97.2	107.2
150°	26.8	33.5	50.3	83.8	97.2
152.5°	26.8	33.5	43.6	70.4	83.8
155°	30.2	33.5	40.2	57.0	67.0
157.5°	30.2	33.5	36.9	46.9	50.3
160°	30.2	30.2	33.5	40.2	40.2
162.5°	30.2	30.2	33.5	33.5	33.5
165°	30.2	30.2	33.5	33.5	33.5
167.5°	30.2	30.2	33.5	33.5	30.2
170°	30.2	30.2	30.2	30.2	30.2
172.5°	30.2	30.2	30.2	30.2	26.8
175°	30.2	30.2	26.8	26.8	23.5
177.5°	30.2	30.2	30.2	26.8	23.5
180°	26.8	26.8	26.8	26.8	26.8

(END OF REPORT)