

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: P534533

Luminaire Tested: **S921DIP-W240-XX4XX-UDD-W**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534533
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35510-R2)
Test Lab: INNOVATION CENTER
Issue Date: 6/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S921DIP-W240-XX4XX-UDD-W
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE CURVILINEAR HOUSING
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

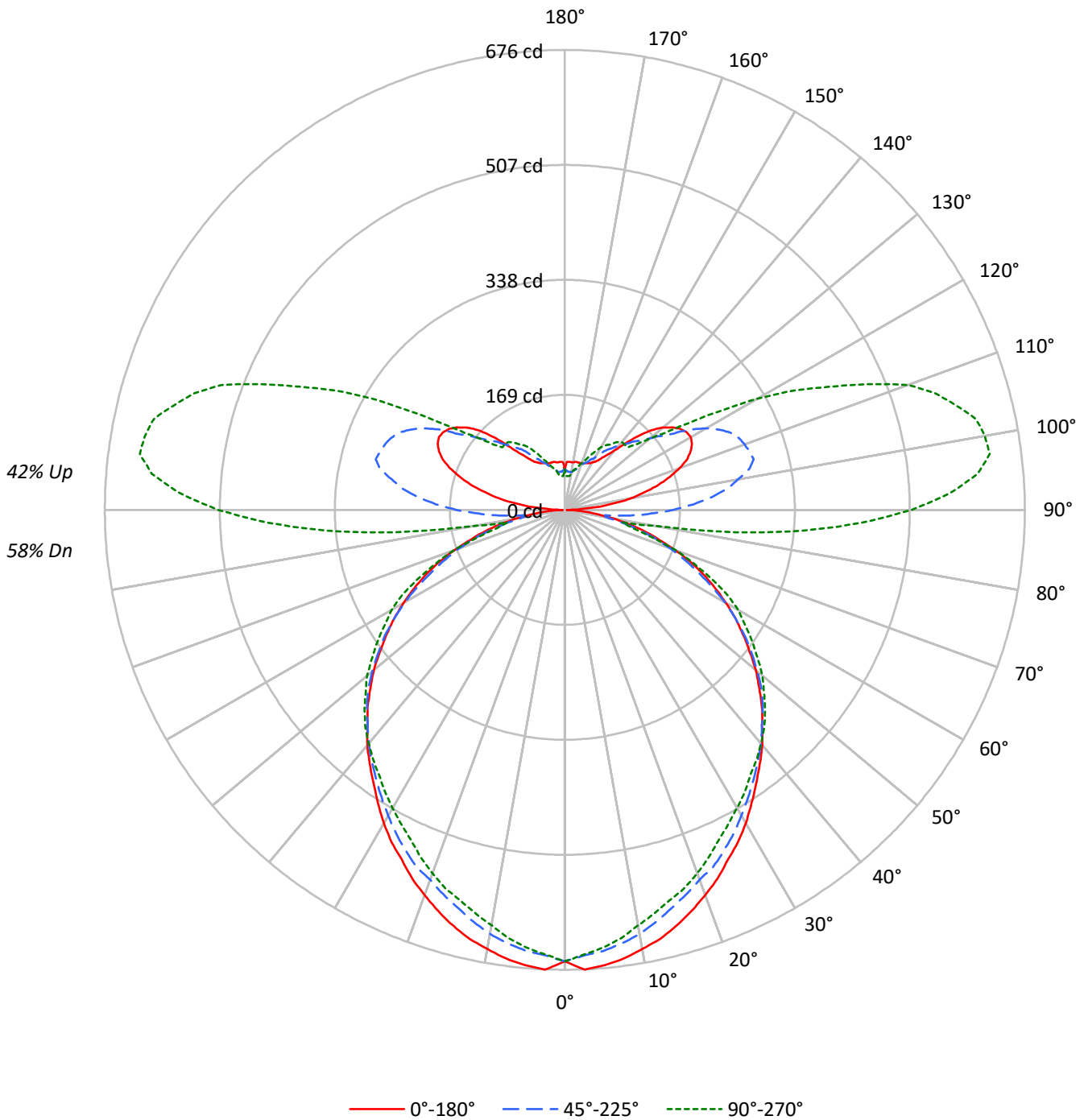
Lumens per Lamp: N/A
Luminaire Lumens: 3266.4 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.14 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: General Diffuse

Input Watts (W): 27.7
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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64	58
1	98	93	89	85	91	87	83	79	75	72	69	64	62	60	54	52	51	46
2	89	81	74	69	83	76	70	65	65	61	57	56	52	49	47	45	42	38
3	81	71	63	57	75	66	59	54	57	52	47	49	45	42	42	39	36	32
4	74	63	54	48	69	59	51	45	51	45	40	44	39	35	37	34	31	27
5	68	56	47	41	63	52	45	39	46	39	35	39	34	31	33	30	27	24
6	63	50	42	35	58	47	39	34	41	35	30	35	31	27	30	26	23	21
7	58	45	37	31	54	42	35	30	37	31	27	32	27	24	28	24	21	18
8	54	41	33	27	50	39	31	26	34	28	24	30	25	21	25	21	19	16
9	50	37	30	24	47	35	28	23	31	25	21	27	22	19	23	20	17	15
10	47	34	27	22	44	32	26	21	29	23	19	25	20	17	22	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2636	2636	2636
5°	2660	2512	2477
10°	2609	2395	2316
15°	2551	2263	2179
20°	2477	2150	2063
25°	2400	2061	1935
30°	2335	1955	1838
35°	2255	1856	1749
40°	2199	1767	1682
45°	2137	1679	1607
50°	2073	1577	1519
55°	1995	1455	1409
60°	1915	1306	1306
65°	1815	1120	1123
70°	1647	936	895
75°	1436	708	585
80°	1125	446	862
85°	623	829	2586



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	1.9
10°-20°	172.5	5.3
20°-30°	255.0	7.8
30°-40°	304.1	9.3
40°-50°	318.8	9.8
50°-60°	291.7	8.9
60°-70°	222.5	6.8
70°-80°	121.6	3.7
80°-90°	159.2	4.9
90°-100°	300.0	9.2
100°-110°	342.8	10.5
110°-120°	287.4	8.8
120°-130°	189.0	5.8
130°-140°	110.6	3.4
140°-150°	67.2	2.1
150°-160°	37.5	1.1
160°-170°	18.6	0.6
170°-180°	5.7	0.2
0°-30°	489.6	15.0
0°-40°	793.7	24.3
0°-60°	1404.3	43.0
0°-90°	1907.7	58.4
90°-120°	930.2	28.5
90°-150°	1297.0	39.7
90°-180°	1359.0	41.6
0°-180°	3266.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	664	664	664	664	664	
5°	672	667	651	649	646	64
15°	633	627	606	598	594	178
25°	567	566	553	543	535	262
35°	490	495	484	479	476	307
45°	410	415	411	416	416	316
55°	320	325	323	331	336	286
65°	225	223	215	233	236	222
75°	120	114	111	106	103	127
85°	26	34	96	260	352	31
90°	3	58	159	392	509	5
95°	48	100	217	474	609	50
105°	143	169	288	488	594	149
115°	204	209	268	371	427	200
125°	207	207	196	210	222	184
135°	154	145	141	133	130	119
145°	92	95	108	117	117	59
155°	76	74	77	85	88	35
165°	72	68	61	63	63	20
175°	71	68	56	51	50	7
180°	60	60	60	60	60	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	663.6	663.6	663.6	663.6	663.6
2.5°	676.5	671.6	655.6	655.6	654.0
5°	671.6	666.8	650.7	649.1	645.9
7.5°	665.2	658.8	642.7	639.5	634.7
10°	655.6	650.7	633.1	626.6	620.2
12.5°	645.9	639.5	620.2	613.8	607.4
15°	633.1	626.6	605.8	597.7	594.5
17.5°	618.6	612.2	592.9	589.7	583.3
20°	602.5	596.1	578.4	575.2	568.8
22.5°	586.5	581.7	568.8	559.2	552.7
25°	567.2	565.6	552.7	543.1	535.1
27.5°	551.1	547.9	536.7	527.0	520.6
30°	531.8	530.2	519.0	511.0	506.1
32.5°	511.0	512.6	501.3	496.5	491.7
35°	490.1	494.9	483.6	478.8	475.6
37.5°	470.8	477.2	466.0	464.4	462.8
40°	451.5	456.3	448.3	448.3	448.3
42.5°	429.0	435.4	429.0	433.8	433.8
45°	409.7	414.6	411.3	416.2	416.2
47.5°	387.2	392.1	392.1	396.9	396.9
50°	366.3	371.2	369.6	376.0	379.2
52.5°	342.2	347.1	345.5	355.1	356.7
55°	319.8	324.6	323.0	331.0	335.8
57.5°	297.3	302.1	297.3	306.9	313.3
60°	273.2	278.0	271.5	281.2	294.0
62.5°	249.1	250.7	242.6	258.7	268.3
65°	225.0	223.3	215.3	233.0	236.2
67.5°	199.2	196.0	189.6	202.5	204.1
70°	171.9	168.7	163.9	170.3	173.5
72.5°	144.6	141.4	138.2	139.8	133.4
75°	120.5	114.1	110.9	106.0	102.8
77.5°	94.8	90.0	83.6	81.9	86.8
80°	70.7	70.7	61.1	85.2	135.0
82.5°	46.6	49.8	59.5	184.8	253.9
85°	25.7	33.7	96.4	260.3	351.9
87.5°	11.2	40.2	126.9	326.2	435.4
90°	3.2	57.8	159.1	392.1	509.4
92.5°	22.5	80.3	189.6	440.3	567.2
95°	48.2	99.6	216.9	474.0	609.0
97.5°	73.9	123.7	241.0	496.5	629.9
100°	99.6	139.8	258.7	501.3	626.6
102.5°	120.5	155.9	278.0	498.1	618.6
105°	143.0	168.7	287.6	488.5	594.5
107.5°	162.3	180.0	284.4	474.0	570.4
110°	180.0	186.4	281.2	440.3	536.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	194.4	197.6	276.4	404.9	482.0
115°	204.1	208.9	268.3	371.2	427.4
117.5°	210.5	215.3	255.5	334.2	379.2
120°	213.7	216.9	239.4	298.9	326.2
122.5°	212.1	215.3	220.1	255.5	269.9
125°	207.3	207.3	196.0	210.5	221.7
127.5°	199.2	197.6	178.4	178.4	186.4
130°	188.0	181.6	163.9	154.3	162.3
132.5°	173.5	162.3	151.0	136.6	141.4
135°	154.3	144.6	141.4	133.4	130.1
137.5°	133.4	128.5	130.1	133.4	130.1
140°	114.1	115.7	123.7	130.1	130.1
142.5°	101.2	106.0	114.1	122.1	125.3
145°	91.6	94.8	107.7	117.3	117.3
147.5°	83.6	86.8	98.0	109.3	112.5
150°	80.3	83.6	88.4	101.2	106.0
152.5°	77.1	77.1	83.6	94.8	96.4
155°	75.5	73.9	77.1	85.2	88.4
157.5°	73.9	72.3	73.9	77.1	78.7
160°	72.3	69.1	69.1	72.3	73.9
162.5°	72.3	67.5	65.9	69.1	67.5
165°	72.3	67.5	61.1	62.7	62.7
167.5°	72.3	65.9	59.5	57.8	59.5
170°	70.7	65.9	56.2	56.2	53.0
172.5°	70.7	65.9	56.2	53.0	49.8
175°	70.7	67.5	56.2	51.4	49.8
177.5°	70.7	67.5	57.8	53.0	49.8
180°	59.5	59.5	59.5	59.5	59.5

(END OF REPORT)