

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: P534519

Luminaire Tested: **S921DIP-W135-XX4XX-UDD-W-PC**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534519
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-W135-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

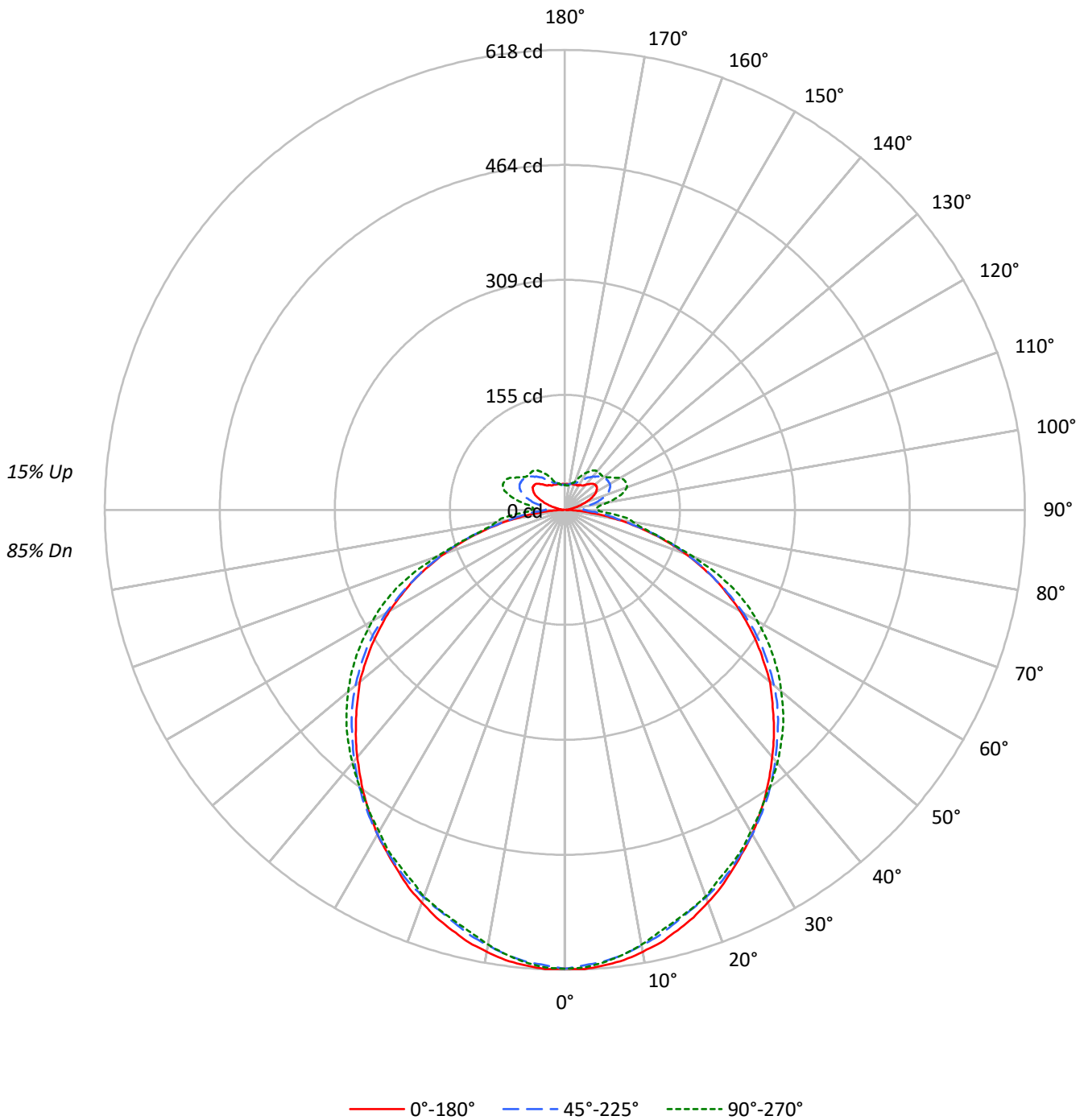
Lumens per Lamp: N/A
Luminaire Lumens: 2096.6 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: Semi-Direct

Input Watts (W): 18.1
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°	2449	2449	2449
5°	2434	2352	2340
10°	2399	2248	2216
15°	2356	2145	2097
20°	2309	2060	2006
25°	2255	1980	1904
30°	2211	1897	1813
35°	2160	1818	1731
40°	2112	1734	1667
45°	2068	1653	1600
50°	2035	1566	1521
55°	1973	1463	1434
60°	1905	1333	1325
65°	1808	1166	1187
70°	1652	991	939
75°	1412	776	692
80°	1077	533	595
85°	564	400	474



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.9	2.8
10°-20°	163.1	7.8
20°-30°	244.9	11.7
30°-40°	296.0	14.1
40°-50°	313.7	15.0
50°-60°	292.5	14.0
60°-70°	228.4	10.9
70°-80°	129.1	6.2
80°-90°	51.4	2.5
90°-100°	30.2	1.4
100°-110°	51.6	2.5
110°-120°	65.7	3.1
120°-130°	59.6	2.8
130°-140°	46.3	2.2
140°-150°	32.8	1.6
150°-160°	19.7	0.9
160°-170°	10.4	0.5
170°-180°	3.3	0.2
0°-30°	466.0	22.2
0°-40°	762.0	36.3
0°-60°	1368.2	65.3
0°-90°	1777.1	84.8
90°-120°	147.5	7.0
90°-150°	286.1	13.6
90°-180°	320.0	15.3
0°-180°	2096.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	617	617	617	617	617	
5°	614	614	609	611	610	58
15°	585	584	574	574	572	165
25°	533	534	531	529	527	246
35°	470	475	474	473	471	294
45°	397	404	405	412	415	306
55°	316	322	325	335	342	283
65°	224	223	224	242	250	221
75°	118	116	122	121	122	126
85°	23	31	46	58	64	28
90°	1	13	25	38	44	2
95°	3	16	28	38	44	4
105°	19	33	48	68	78	20
115°	41	54	67	82	90	40
125°	53	59	70	73	76	46
135°	50	50	64	67	68	38
145°	40	42	53	61	64	25
155°	37	38	41	46	50	17
165°	36	36	37	37	37	10
175°	35	35	34	34	33	3
180°	34	34	34	34	34	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	616.6	616.6	616.6	616.6	616.6
2.5°	617.7	617.7	612.4	615.6	615.6
5°	614.5	614.5	609.2	611.3	610.3
7.5°	610.3	609.2	602.9	603.9	602.9
10°	602.9	601.8	594.4	595.5	593.4
12.5°	595.5	593.4	586.0	583.8	581.7
15°	584.9	583.8	574.3	574.3	572.2
17.5°	574.3	572.2	563.8	564.8	562.7
20°	561.6	560.6	554.2	555.3	553.2
22.5°	548.9	547.9	543.7	542.6	538.4
25°	533.1	534.1	531.0	528.8	526.7
27.5°	518.3	519.3	517.2	516.2	515.1
30°	503.5	505.6	503.5	501.3	499.2
32.5°	486.5	489.7	488.7	486.5	485.5
35°	469.6	474.9	473.8	472.8	470.7
37.5°	451.6	459.0	456.9	458.0	458.0
40°	433.7	441.1	440.0	443.2	444.2
42.5°	415.7	422.0	422.0	428.4	429.4
45°	396.6	404.0	405.1	412.5	414.6
47.5°	377.6	383.9	387.1	395.6	397.7
50°	359.6	363.8	367.0	376.5	379.7
52.5°	337.4	342.7	345.9	357.5	361.7
55°	316.3	321.5	324.7	335.3	341.6
57.5°	294.0	299.3	301.4	314.1	320.5
60°	271.8	275.0	277.1	289.8	298.3
62.5°	247.5	249.6	250.7	267.6	276.1
65°	224.2	223.2	224.2	242.2	249.6
67.5°	197.8	197.8	199.9	214.7	217.9
70°	172.4	171.3	173.5	183.0	181.9
72.5°	146.0	142.8	149.1	149.1	149.1
75°	118.5	116.3	121.6	120.6	121.6
77.5°	93.1	93.1	94.1	98.4	102.6
80°	67.7	70.9	73.0	85.7	93.1
82.5°	43.4	48.7	59.2	79.3	84.6
85°	23.3	30.7	46.5	58.2	64.5
87.5°	8.5	20.1	30.7	41.3	46.5
90°	1.1	12.7	25.4	38.1	44.4
92.5°	1.1	13.8	25.4	37.0	42.3
95°	3.2	15.9	27.5	38.1	44.4
97.5°	6.3	19.0	29.6	42.3	49.7
100°	9.5	23.3	33.8	50.8	60.3
102.5°	13.8	27.5	41.3	60.3	69.8
105°	19.0	32.8	47.6	67.7	78.3
107.5°	24.3	39.1	53.9	74.0	84.6
110°	30.7	44.4	59.2	78.3	88.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	36.0	49.7	63.5	80.4	89.9
115°	41.3	53.9	66.6	82.5	89.9
117.5°	45.5	57.1	68.8	82.5	88.8
120°	48.7	59.2	69.8	80.4	85.7
122.5°	50.8	59.2	69.8	77.2	80.4
125°	52.9	59.2	69.8	73.0	76.2
127.5°	52.9	58.2	68.8	69.8	71.9
130°	52.9	56.1	66.6	67.7	68.8
132.5°	51.8	52.9	65.6	66.6	67.7
135°	49.7	49.7	63.5	66.6	67.7
137.5°	46.5	47.6	60.3	67.7	67.7
140°	44.4	45.5	58.2	66.6	67.7
142.5°	41.3	44.4	55.0	64.5	66.6
145°	40.2	42.3	52.9	61.3	64.5
147.5°	39.1	41.3	48.7	58.2	61.3
150°	38.1	40.2	44.4	55.0	57.1
152.5°	37.0	39.1	42.3	51.8	53.9
155°	37.0	38.1	41.3	46.5	49.7
157.5°	37.0	38.1	39.1	42.3	44.4
160°	36.0	37.0	38.1	40.2	40.2
162.5°	36.0	36.0	38.1	38.1	38.1
165°	36.0	36.0	37.0	37.0	37.0
167.5°	36.0	36.0	36.0	36.0	36.0
170°	34.9	34.9	34.9	34.9	34.9
172.5°	34.9	34.9	33.8	33.8	32.8
175°	34.9	34.9	33.8	33.8	32.8
177.5°	34.9	34.9	33.8	33.8	32.8
180°	33.8	33.8	33.8	33.8	33.8

(END OF REPORT)