

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: P534531

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

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534531
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-W240-XX4XX-UDD-W-PC
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE CURVILINEAR HOUSING WITH PERFORATED UPLIGHT COVER
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

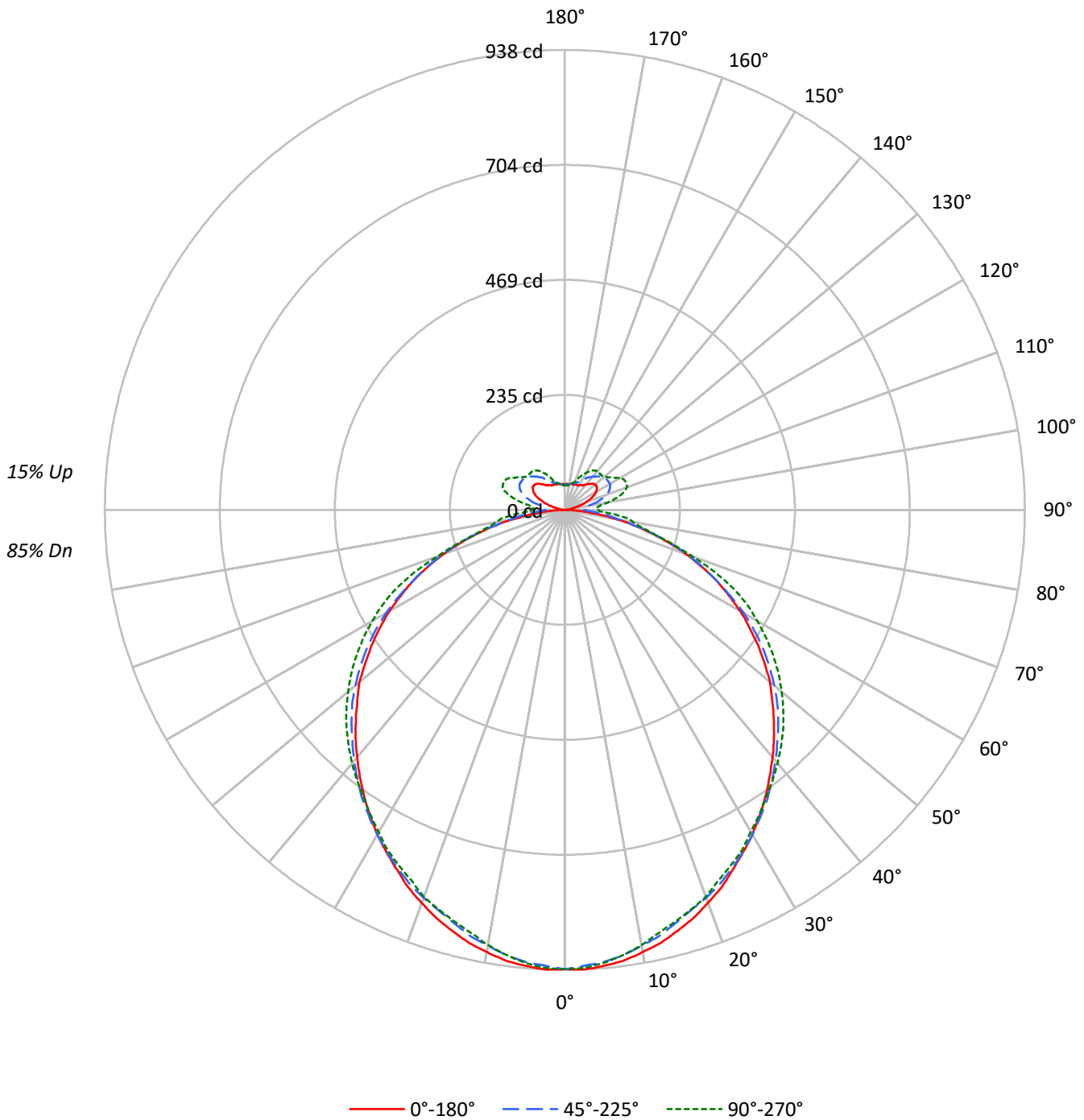
Lumens per Lamp: N/A
Luminaire Lumens: 3185.0 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: Semi-Direct

Input Watts (W): 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	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°	3721	3721	3721
5°	3697	3572	3555
10°	3644	3415	3365
15°	3580	3259	3186
20°	3508	3130	3047
25°	3426	3007	2893
30°	3358	2882	2755
35°	3282	2762	2629
40°	3208	2634	2532
45°	3142	2512	2432
50°	3092	2379	2311
55°	2997	2222	2178
60°	2894	2025	2013
65°	2747	1771	1804
70°	2510	1505	1426
75°	2145	1180	1051
80°	1636	809	903
85°	855	608	720



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	2.8
10°-20°	247.8	7.8
20°-30°	372.0	11.7
30°-40°	449.7	14.1
40°-50°	476.6	15.0
50°-60°	444.4	14.0
60°-70°	347.0	10.9
70°-80°	196.1	6.2
80°-90°	78.0	2.5
90°-100°	45.9	1.4
100°-110°	78.3	2.5
110°-120°	99.8	3.1
120°-130°	90.5	2.8
130°-140°	70.3	2.2
140°-150°	49.8	1.6
150°-160°	30.0	0.9
160°-170°	15.8	0.5
170°-180°	5.0	0.2
0°-30°	707.9	22.2
0°-40°	1157.5	36.3
0°-60°	2078.5	65.3
0°-90°	2699.6	84.8
90°-120°	224.0	7.0
90°-150°	434.6	13.6
90°-180°	485.0	15.2
0°-180°	3185.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	937	937	937	937	937	
5°	934	934	926	929	927	89
15°	889	887	872	872	869	251
25°	810	811	807	803	800	374
35°	713	721	720	718	715	446
45°	602	614	615	627	630	465
55°	480	488	493	509	519	429
65°	341	339	341	368	379	335
75°	180	177	185	183	185	191
85°	35	47	71	88	98	43
90°	2	19	39	58	68	2
95°	5	24	42	58	68	6
105°	29	50	72	103	119	31
115°	63	82	101	125	137	61
125°	80	90	106	111	116	71
135°	76	76	96	101	103	58
145°	61	64	80	93	98	39
155°	56	58	63	71	76	26
165°	55	55	56	56	56	15
175°	53	53	51	51	50	5
180°	51	51	51	51	51	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	936.8	936.8	936.8	936.8	936.8
2.5°	938.4	938.4	930.3	935.1	935.1
5°	933.5	933.5	925.5	928.7	927.1
7.5°	927.1	925.5	915.9	917.5	915.9
10°	915.9	914.3	903.0	904.6	901.4
12.5°	904.6	901.4	890.2	886.9	883.7
15°	888.6	886.9	872.5	872.5	869.3
17.5°	872.5	869.3	856.4	858.0	854.8
20°	853.2	851.6	842.0	843.6	840.3
22.5°	833.9	832.3	825.9	824.3	817.9
25°	809.8	811.4	806.6	803.4	800.2
27.5°	787.3	788.9	785.7	784.1	782.5
30°	764.8	768.0	764.8	761.6	758.4
32.5°	739.1	743.9	742.3	739.1	737.5
35°	713.4	721.4	719.8	718.2	715.0
37.5°	686.1	697.3	694.1	695.7	695.7
40°	658.8	670.0	668.4	673.2	674.8
42.5°	631.5	641.1	641.1	650.7	652.4
45°	602.5	613.8	615.4	626.6	629.9
47.5°	573.6	583.3	588.1	600.9	604.2
50°	546.3	552.7	557.6	572.0	576.8
52.5°	512.6	520.6	525.4	543.1	549.5
55°	480.4	488.5	493.3	509.4	519.0
57.5°	446.7	454.7	457.9	477.2	486.9
60°	412.9	417.8	421.0	440.3	453.1
62.5°	376.0	379.2	380.8	406.5	419.4
65°	340.6	339.0	340.6	368.0	379.2
67.5°	300.5	300.5	303.7	326.2	331.0
70°	261.9	260.3	263.5	278.0	276.4
72.5°	221.7	216.9	226.6	226.6	226.6
75°	180.0	176.7	184.8	183.2	184.8
77.5°	141.4	141.4	143.0	149.4	155.9
80°	102.8	107.7	110.9	130.1	141.4
82.5°	65.9	73.9	90.0	120.5	128.5
85°	35.3	46.6	70.7	88.4	98.0
87.5°	12.9	30.5	46.6	62.7	70.7
90°	1.6	19.3	38.6	57.8	67.5
92.5°	1.6	20.9	38.6	56.2	64.3
95°	4.8	24.1	41.8	57.8	67.5
97.5°	9.6	28.9	45.0	64.3	75.5
100°	14.5	35.3	51.4	77.1	91.6
102.5°	20.9	41.8	62.7	91.6	106.0
105°	28.9	49.8	72.3	102.8	118.9
107.5°	37.0	59.5	81.9	112.5	128.5
110°	46.6	67.5	90.0	118.9	135.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	54.6	75.5	96.4	122.1	136.6
115°	62.7	81.9	101.2	125.3	136.6
117.5°	69.1	86.8	104.4	125.3	135.0
120°	73.9	90.0	106.0	122.1	130.1
122.5°	77.1	90.0	106.0	117.3	122.1
125°	80.3	90.0	106.0	110.9	115.7
127.5°	80.3	88.4	104.4	106.0	109.3
130°	80.3	85.2	101.2	102.8	104.4
132.5°	78.7	80.3	99.6	101.2	102.8
135°	75.5	75.5	96.4	101.2	102.8
137.5°	70.7	72.3	91.6	102.8	102.8
140°	67.5	69.1	88.4	101.2	102.8
142.5°	62.7	67.5	83.6	98.0	101.2
145°	61.1	64.3	80.3	93.2	98.0
147.5°	59.5	62.7	73.9	88.4	93.2
150°	57.8	61.1	67.5	83.6	86.8
152.5°	56.2	59.5	64.3	78.7	81.9
155°	56.2	57.8	62.7	70.7	75.5
157.5°	56.2	57.8	59.5	64.3	67.5
160°	54.6	56.2	57.8	61.1	61.1
162.5°	54.6	54.6	57.8	57.8	57.8
165°	54.6	54.6	56.2	56.2	56.2
167.5°	54.6	54.6	54.6	54.6	54.6
170°	53.0	53.0	53.0	53.0	53.0
172.5°	53.0	53.0	51.4	51.4	49.8
175°	53.0	53.0	51.4	51.4	49.8
177.5°	53.0	53.0	51.4	51.4	49.8
180°	51.4	51.4	51.4	51.4	51.4

(END OF REPORT)