

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: P534536

Luminaire Tested: **S921DIP-W330-XX4XX-UDD-W**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534536
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-W330-XX4XX-UDD-W
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE CURVILINEAR HOUSING
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

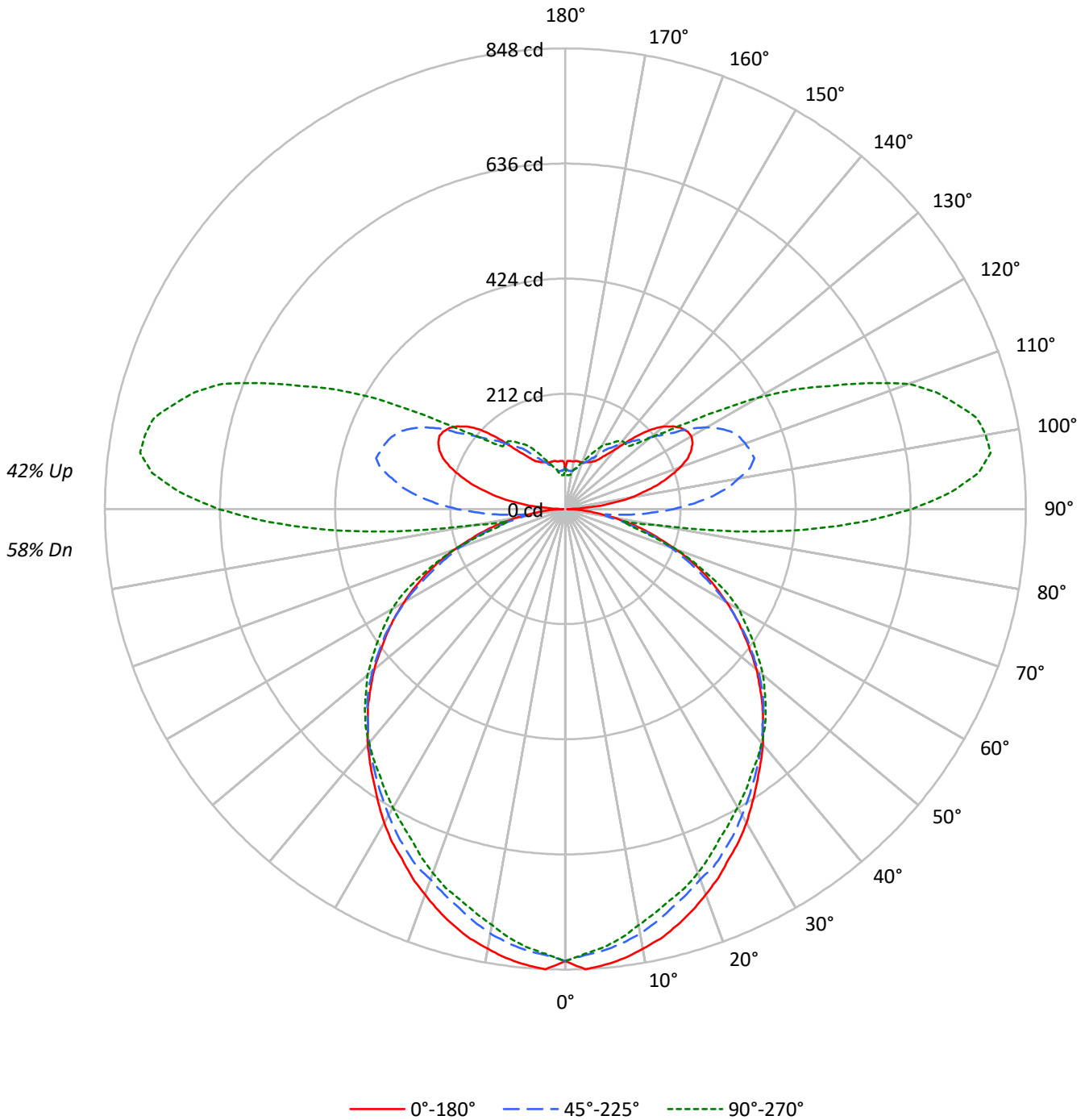
Lumens per Lamp: N/A
Luminaire Lumens: 4096.8 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.14 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: General Diffuse

Input Watts (W): 38.5
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°	3306	3306	3306
5°	3336	3151	3107
10°	3272	3003	2904
15°	3199	2838	2733
20°	3107	2697	2587
25°	3010	2585	2426
30°	2929	2452	2306
35°	2828	2328	2193
40°	2758	2216	2110
45°	2680	2106	2015
50°	2600	1977	1905
55°	2501	1825	1768
60°	2401	1638	1638
65°	2275	1405	1409
70°	2066	1174	1123
75°	1801	888	734
80°	1412	559	1081
85°	780	1039	3244



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.8	1.9
10°-20°	216.4	5.3
20°-30°	319.9	7.8
30°-40°	381.4	9.3
40°-50°	399.9	9.8
50°-60°	365.9	8.9
60°-70°	279.1	6.8
70°-80°	152.5	3.7
80°-90°	199.7	4.9
90°-100°	376.3	9.2
100°-110°	429.9	10.5
110°-120°	360.5	8.8
120°-130°	237.1	5.8
130°-140°	138.8	3.4
140°-150°	84.2	2.1
150°-160°	47.0	1.1
160°-170°	23.4	0.6
170°-180°	7.1	0.2
0°-30°	614.1	15.0
0°-40°	995.5	24.3
0°-60°	1761.3	43.0
0°-90°	2392.6	58.4
90°-120°	1166.7	28.5
90°-150°	1626.8	39.7
90°-180°	1704.0	41.6
0°-180°	4096.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	832	832	832	832	832	
5°	842	836	816	814	810	80
15°	794	786	760	750	746	224
25°	711	709	693	681	671	329
35°	615	621	607	601	596	386
45°	514	520	516	522	522	396
55°	401	407	405	415	421	359
65°	282	280	270	292	296	278
75°	151	143	139	133	129	159
85°	32	42	121	326	441	39
90°	4	73	200	492	639	7
95°	60	125	272	594	764	62
105°	179	212	361	613	746	187
115°	256	262	337	466	536	251
125°	260	260	246	264	278	231
135°	194	181	177	167	163	150
145°	115	119	135	147	147	74
155°	95	93	97	107	111	44
165°	91	85	77	79	79	26
175°	89	85	70	64	62	8
180°	75	75	75	75	75	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	832.3	832.3	832.3	832.3	832.3
2.5°	848.4	842.4	822.2	822.2	820.2
5°	842.4	836.4	816.2	814.2	810.2
7.5°	834.3	826.3	806.1	802.1	796.0
10°	822.2	816.2	794.0	786.0	777.9
12.5°	810.2	802.1	777.9	769.8	761.8
15°	794.0	786.0	759.8	749.7	745.7
17.5°	775.9	767.8	743.6	739.6	731.6
20°	755.7	747.7	725.5	721.5	713.4
22.5°	735.6	729.5	713.4	701.3	693.3
25°	711.4	709.4	693.3	681.2	671.1
27.5°	691.2	687.2	673.1	661.0	653.0
30°	667.1	665.0	650.9	640.9	634.8
32.5°	640.9	642.9	628.8	622.7	616.7
35°	614.7	620.7	606.6	600.6	596.5
37.5°	590.5	598.5	584.4	582.4	580.4
40°	566.3	572.3	562.3	562.3	562.3
42.5°	538.1	546.1	538.1	544.1	544.1
45°	513.9	519.9	515.9	522.0	522.0
47.5°	485.7	491.7	491.7	497.8	497.8
50°	459.5	465.5	463.5	471.6	475.6
52.5°	429.3	435.3	433.3	445.4	447.4
55°	401.0	407.1	405.1	415.2	421.2
57.5°	372.8	378.9	372.8	384.9	393.0
60°	342.6	348.6	340.6	352.7	368.8
62.5°	312.4	314.4	304.3	324.5	336.6
65°	282.1	280.1	270.1	292.2	296.2
67.5°	249.9	245.9	237.8	253.9	255.9
70°	215.6	211.6	205.6	213.6	217.7
72.5°	181.4	177.3	173.3	175.3	167.3
75°	151.1	143.1	139.1	133.0	129.0
77.5°	118.9	112.9	104.8	102.8	108.8
80°	88.7	88.7	76.6	106.8	169.3
82.5°	58.4	62.5	74.6	231.8	318.4
85°	32.2	42.3	120.9	326.5	441.4
87.5°	14.1	50.4	159.2	409.1	546.1
90°	4.0	72.6	199.5	491.7	638.9
92.5°	28.2	100.8	237.8	552.2	711.4
95°	60.5	124.9	272.1	594.5	763.8
97.5°	92.7	155.2	302.3	622.7	790.0
100°	124.9	175.3	324.5	628.8	786.0
102.5°	151.1	195.5	348.6	624.7	775.9
105°	179.4	211.6	360.7	612.7	745.7
107.5°	203.5	225.7	356.7	594.5	715.4
110°	225.7	233.8	352.7	552.2	673.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	243.9	247.9	346.6	507.9	604.6
115°	255.9	262.0	336.6	465.5	536.1
117.5°	264.0	270.1	320.4	419.2	475.6
120°	268.0	272.1	300.3	374.8	409.1
122.5°	266.0	270.1	276.1	320.4	338.6
125°	260.0	260.0	245.9	264.0	278.1
127.5°	249.9	247.9	223.7	223.7	233.8
130°	235.8	227.7	205.6	193.5	203.5
132.5°	217.7	203.5	189.4	171.3	177.3
135°	193.5	181.4	177.3	167.3	163.2
137.5°	167.3	161.2	163.2	167.3	163.2
140°	143.1	145.1	155.2	163.2	163.2
142.5°	127.0	133.0	143.1	153.2	157.2
145°	114.9	118.9	135.0	147.1	147.1
147.5°	104.8	108.8	122.9	137.0	141.1
150°	100.8	104.8	110.8	127.0	133.0
152.5°	96.7	96.7	104.8	118.9	120.9
155°	94.7	92.7	96.7	106.8	110.8
157.5°	92.7	90.7	92.7	96.7	98.7
160°	90.7	86.7	86.7	90.7	92.7
162.5°	90.7	84.6	82.6	86.7	84.6
165°	90.7	84.6	76.6	78.6	78.6
167.5°	90.7	82.6	74.6	72.6	74.6
170°	88.7	82.6	70.5	70.5	66.5
172.5°	88.7	82.6	70.5	66.5	62.5
175°	88.7	84.6	70.5	64.5	62.5
177.5°	88.7	84.6	72.6	66.5	62.5
180°	74.6	74.6	74.6	74.6	74.6

(END OF REPORT)