

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: P534524

Luminaire Tested: **S921DIP-W140-XX4XX-UDD-W**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534524
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-W140-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

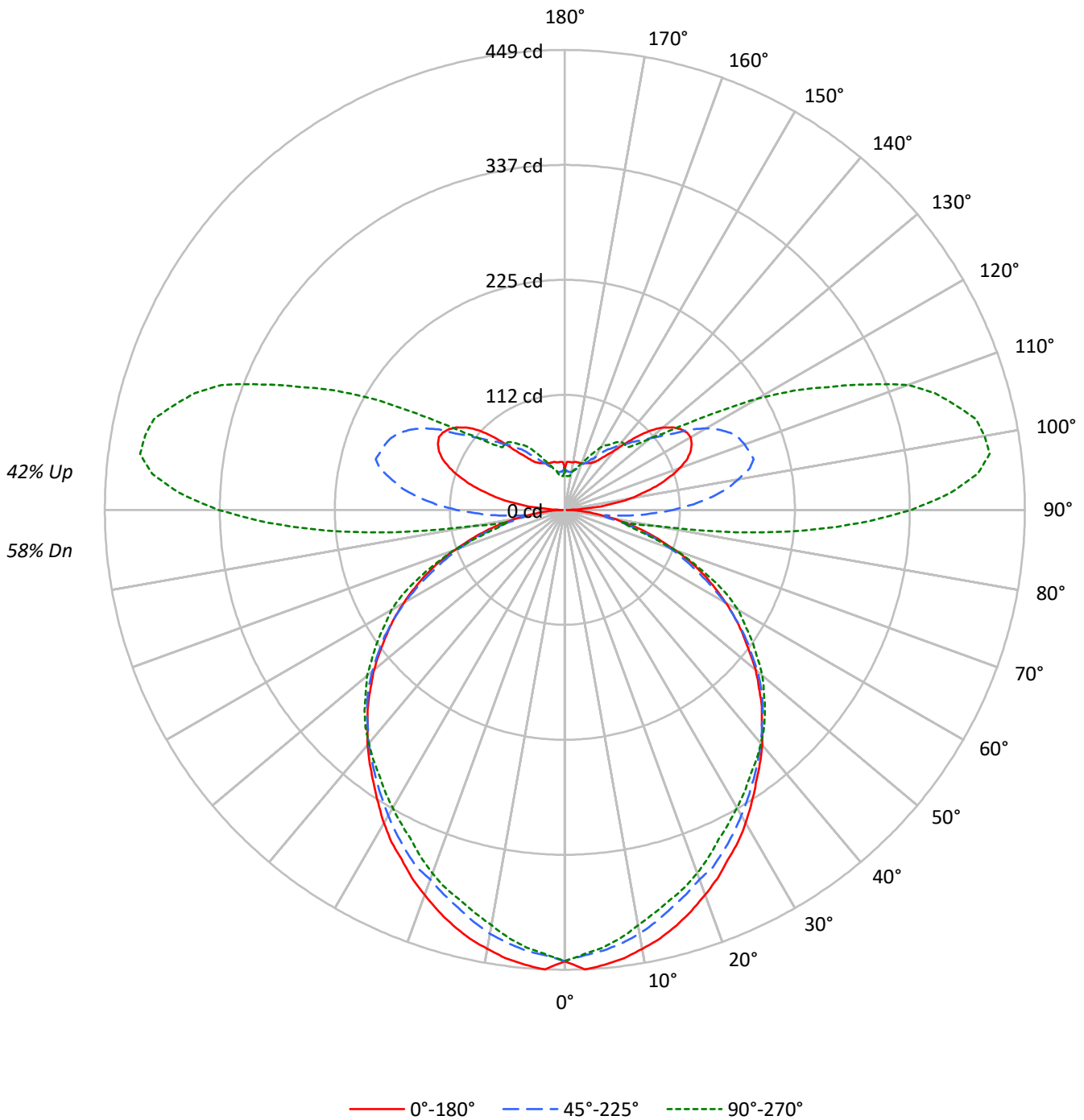
Lumens per Lamp: N/A
Luminaire Lumens: 2168.5 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.14 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: General Diffuse

Input Watts (W): 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	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	36	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°	1750	1750	1750
5°	1766	1668	1644
10°	1732	1590	1537
15°	1693	1502	1447
20°	1645	1428	1369
25°	1593	1368	1284
30°	1550	1298	1220
35°	1497	1232	1161
40°	1460	1173	1117
45°	1419	1115	1067
50°	1376	1047	1009
55°	1324	966	936
60°	1271	867	867
65°	1204	743	746
70°	1093	621	594
75°	953	470	388
80°	746	296	572
85°	414	550	1717



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.2	1.9
10°-20°	114.5	5.3
20°-30°	169.3	7.8
30°-40°	201.9	9.3
40°-50°	211.7	9.8
50°-60°	193.7	8.9
60°-70°	147.7	6.8
70°-80°	80.7	3.7
80°-90°	105.7	4.9
90°-100°	199.2	9.2
100°-110°	227.6	10.5
110°-120°	190.8	8.8
120°-130°	125.5	5.8
130°-140°	73.4	3.4
140°-150°	44.6	2.1
150°-160°	24.9	1.1
160°-170°	12.4	0.6
170°-180°	3.8	0.2
0°-30°	325.1	15.0
0°-40°	527.0	24.3
0°-60°	932.3	43.0
0°-90°	1266.5	58.4
90°-120°	617.6	28.5
90°-150°	861.1	39.7
90°-180°	902.0	41.6
0°-180°	2168.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	441	441	441	441	441	
5°	446	443	432	431	429	42
15°	420	416	402	397	395	118
25°	377	376	367	361	355	174
35°	325	329	321	318	316	204
45°	272	275	273	276	276	210
55°	212	216	214	220	223	190
65°	149	148	143	155	157	147
75°	80	76	74	70	68	84
85°	17	22	64	173	234	20
90°	2	38	106	260	338	4
95°	32	66	144	315	404	33
105°	95	112	191	324	395	99
115°	136	139	178	246	284	133
125°	138	138	130	140	147	122
135°	102	96	94	88	86	79
145°	61	63	72	78	78	39
155°	50	49	51	56	59	23
165°	48	45	40	42	42	14
175°	47	45	37	34	33	4
180°	40	40	40	40	40	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	440.6	440.6	440.6	440.6	440.6
2.5°	449.1	445.9	435.2	435.2	434.2
5°	445.9	442.7	432.0	431.0	428.8
7.5°	441.6	437.4	426.7	424.6	421.4
10°	435.2	432.0	420.3	416.0	411.8
12.5°	428.8	424.6	411.8	407.5	403.2
15°	420.3	416.0	402.2	396.8	394.7
17.5°	410.7	406.4	393.6	391.5	387.2
20°	400.0	395.8	384.0	381.9	377.6
22.5°	389.4	386.2	377.6	371.2	367.0
25°	376.6	375.5	367.0	360.6	355.2
27.5°	365.9	363.8	356.3	349.9	345.6
30°	353.1	352.0	344.6	339.2	336.0
32.5°	339.2	340.3	332.8	329.6	326.4
35°	325.4	328.6	321.1	317.9	315.8
37.5°	312.6	316.8	309.4	308.3	307.2
40°	299.8	303.0	297.6	297.6	297.6
42.5°	284.8	289.1	284.8	288.0	288.0
45°	272.0	275.2	273.1	276.3	276.3
47.5°	257.1	260.3	260.3	263.5	263.5
50°	243.2	246.4	245.4	249.6	251.8
52.5°	227.2	230.4	229.4	235.8	236.8
55°	212.3	215.5	214.4	219.8	223.0
57.5°	197.4	200.6	197.4	203.8	208.0
60°	181.4	184.6	180.3	186.7	195.2
62.5°	165.3	166.4	161.1	171.7	178.1
65°	149.3	148.3	142.9	154.7	156.8
67.5°	132.3	130.1	125.9	134.4	135.5
70°	114.1	112.0	108.8	113.1	115.2
72.5°	96.0	93.9	91.7	92.8	88.5
75°	80.0	75.7	73.6	70.4	68.3
77.5°	62.9	59.7	55.5	54.4	57.6
80°	46.9	46.9	40.5	56.5	89.6
82.5°	30.9	33.1	39.5	122.7	168.5
85°	17.1	22.4	64.0	172.8	233.6
87.5°	7.5	26.7	84.3	216.6	289.1
90°	2.1	38.4	105.6	260.3	338.2
92.5°	14.9	53.3	125.9	292.3	376.6
95°	32.0	66.1	144.0	314.7	404.3
97.5°	49.1	82.1	160.0	329.6	418.2
100°	66.1	92.8	171.7	332.8	416.0
102.5°	80.0	103.5	184.6	330.7	410.7
105°	94.9	112.0	191.0	324.3	394.7
107.5°	107.7	119.5	188.8	314.7	378.7
110°	119.5	123.7	186.7	292.3	356.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	129.1	131.2	183.5	268.8	320.0
115°	135.5	138.7	178.1	246.4	283.8
117.5°	139.7	142.9	169.6	221.9	251.8
120°	141.9	144.0	158.9	198.4	216.6
122.5°	140.8	142.9	146.1	169.6	179.2
125°	137.6	137.6	130.1	139.7	147.2
127.5°	132.3	131.2	118.4	118.4	123.7
130°	124.8	120.5	108.8	102.4	107.7
132.5°	115.2	107.7	100.3	90.7	93.9
135°	102.4	96.0	93.9	88.5	86.4
137.5°	88.5	85.3	86.4	88.5	86.4
140°	75.7	76.8	82.1	86.4	86.4
142.5°	67.2	70.4	75.7	81.1	83.2
145°	60.8	62.9	71.5	77.9	77.9
147.5°	55.5	57.6	65.1	72.5	74.7
150°	53.3	55.5	58.7	67.2	70.4
152.5°	51.2	51.2	55.5	62.9	64.0
155°	50.1	49.1	51.2	56.5	58.7
157.5°	49.1	48.0	49.1	51.2	52.3
160°	48.0	45.9	45.9	48.0	49.1
162.5°	48.0	44.8	43.7	45.9	44.8
165°	48.0	44.8	40.5	41.6	41.6
167.5°	48.0	43.7	39.5	38.4	39.5
170°	46.9	43.7	37.3	37.3	35.2
172.5°	46.9	43.7	37.3	35.2	33.1
175°	46.9	44.8	37.3	34.1	33.1
177.5°	46.9	44.8	38.4	35.2	33.1
180°	39.5	39.5	39.5	39.5	39.5

(END OF REPORT)