

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: P534479

Luminaire Tested: **S920DIP-W140-XX4XX-UDD-W**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29790)
Test Lab: INNOVATION CENTER
Issue Date: 6/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S920DIP-W140-XX4XX-UDD-W
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE RECTANCULAR HOUSING
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

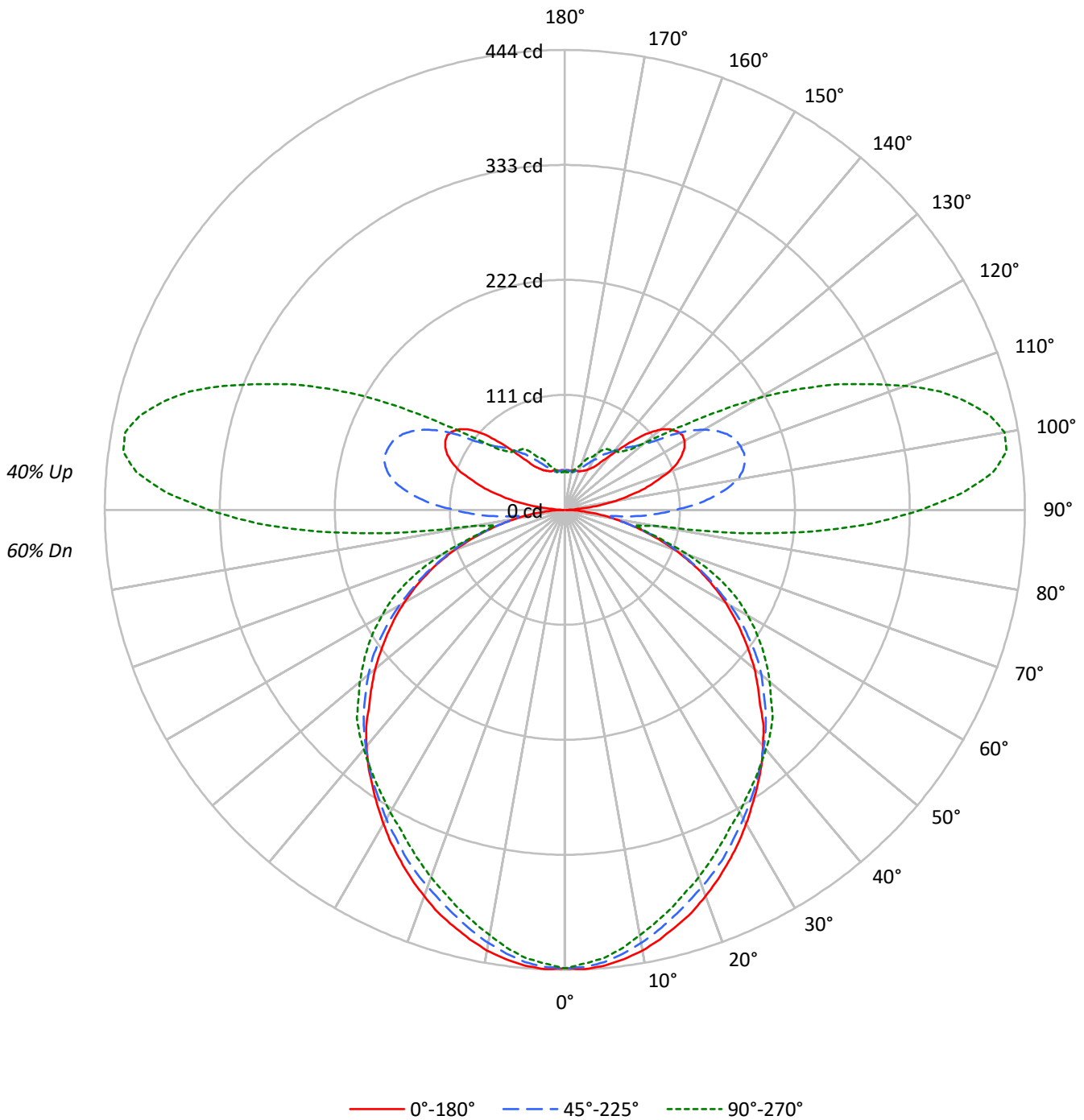
Lumens per Lamp: N/A
Luminaire Lumens: 2151.2 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: General Diffuse

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



TEST NUMBER: P534479
CATALOG NUMBER: S920DIP-W140-XX4XX-UDD-W

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	89	89	89	76	76	76	65	65	65	60
1	98	93	89	85	91	87	83	79	75	72	70	65	62	60	55	53	52	47
2	89	81	74	68	83	76	70	64	66	61	57	56	53	50	48	45	43	39
3	81	71	63	57	75	66	59	54	58	52	48	50	45	42	42	39	36	32
4	74	63	54	48	69	59	51	45	51	45	40	44	39	36	38	34	31	28
5	68	56	47	41	63	52	45	39	46	39	35	40	35	31	34	30	27	24
6	63	50	41	35	58	47	39	34	41	35	30	36	31	27	31	27	24	21
7	58	45	37	31	54	42	35	29	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	26	22	19	16
9	50	37	30	24	47	35	28	23	31	25	21	27	22	19	24	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°	1758	1758	1758
5°	1749	1692	1665
10°	1719	1606	1557
15°	1676	1518	1458
20°	1631	1439	1369
25°	1584	1368	1288
30°	1536	1298	1224
35°	1492	1236	1173
40°	1449	1177	1133
45°	1391	1119	1096
50°	1353	1056	1034
55°	1304	980	976
60°	1256	888	905
65°	1187	782	812
70°	1084	658	655
75°	928	511	461
80°	746	342	565
85°	439	596	1764



TEST NUMBER: P534479

CATALOG NUMBER: S920DIP-W140-XX4XX-UDD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.3	1.9
10°-20°	114.5	5.3
20°-30°	168.5	7.8
30°-40°	201.3	9.4
40°-50°	211.6	9.8
50°-60°	195.5	9.1
60°-70°	152.9	7.1
70°-80°	86.7	4.0
80°-90°	109.0	5.1
90°-100°	198.9	9.2
100°-110°	221.6	10.3
110°-120°	184.4	8.6
120°-130°	120.7	5.6
130°-140°	67.0	3.1
140°-150°	39.8	1.8
150°-160°	22.4	1.0
160°-170°	11.4	0.5
170°-180°	3.6	0.2
0°-30°	324.4	15.1
0°-40°	525.7	24.4
0°-60°	932.8	43.4
0°-90°	1281.4	59.6
90°-120°	604.9	28.1
90°-150°	832.3	38.7
90°-180°	870.0	40.4
0°-180°	2151.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	443	443	443	443	443	
5°	442	438	438	435	434	42
15°	416	412	406	400	398	117
25°	374	371	367	360	356	173
35°	324	323	322	319	319	203
45°	267	268	274	281	284	207
55°	209	210	218	227	233	187
65°	147	146	150	166	171	145
75°	78	77	80	81	81	83
85°	18	24	69	179	240	21
90°	1	36	107	260	344	2
95°	17	61	144	321	415	22
105°	80	101	180	325	402	83
115°	125	125	173	243	286	122
125°	132	130	126	140	145	117
135°	96	88	85	77	80	74
145°	51	54	65	72	72	34
155°	42	42	48	53	56	19
165°	40	38	38	40	42	11
175°	38	38	37	37	36	4
180°	37	37	37	37	37	

TEST NUMBER: P534479

CATALOG NUMBER: S920DIP-W140-XX4XX-UDD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	442.7	442.7	442.7	442.7	442.7
2.5°	443.8	440.6	441.6	440.6	438.4
5°	441.6	438.4	438.4	435.2	434.2
7.5°	437.4	433.1	432.0	427.8	426.7
10°	432.0	427.8	424.6	419.2	417.1
12.5°	424.6	420.3	416.0	410.7	407.5
15°	416.0	411.8	406.4	400.0	397.9
17.5°	407.5	402.2	396.8	390.4	387.2
20°	396.8	391.5	387.2	379.8	377.6
22.5°	386.2	381.9	377.6	369.1	367.0
25°	374.4	371.2	367.0	359.5	356.3
27.5°	362.7	359.5	355.2	348.8	345.6
30°	349.9	347.8	344.6	338.2	337.1
32.5°	337.1	336.0	332.8	328.6	327.5
35°	324.3	323.2	322.2	319.0	319.0
37.5°	311.5	310.4	310.4	309.4	310.4
40°	297.6	296.6	298.7	299.8	301.9
42.5°	283.8	283.8	287.0	291.2	293.4
45°	266.7	267.8	274.2	280.6	283.8
47.5°	252.8	253.9	260.3	267.8	269.9
50°	239.0	239.0	247.5	253.9	258.2
52.5°	224.0	225.1	233.6	241.1	245.4
55°	209.1	210.2	217.6	227.2	232.6
57.5°	194.2	194.2	201.6	212.3	218.7
60°	179.2	179.2	184.6	196.3	203.8
62.5°	163.2	163.2	166.4	182.4	188.8
65°	147.2	146.1	150.4	166.4	170.7
67.5°	130.1	129.1	132.3	148.3	149.3
70°	113.1	110.9	115.2	126.9	126.9
72.5°	94.9	93.9	99.2	103.5	101.3
75°	77.9	76.8	80.0	81.1	81.1
77.5°	61.9	61.9	61.9	64.0	69.3
80°	46.9	48.0	46.9	62.9	88.5
82.5°	33.1	33.1	44.8	123.7	171.7
85°	18.1	23.5	69.3	179.2	240.0
87.5°	7.5	26.7	89.6	223.0	297.6
90°	1.1	36.3	106.7	260.3	343.5
92.5°	6.4	50.1	128.0	296.6	385.1
95°	17.1	60.8	144.0	321.1	415.0
97.5°	34.1	72.5	157.9	338.2	429.9
100°	50.1	83.2	169.6	340.3	431.0
102.5°	64.0	92.8	176.0	336.0	420.3
105°	80.0	101.3	180.3	325.4	402.2
107.5°	92.8	108.8	181.4	308.3	379.8
110°	106.7	113.1	180.3	288.0	349.9



TEST NUMBER: P534479

CATALOG NUMBER: S920DIP-W140-XX4XX-UDD-W

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	117.3	118.4	178.1	264.6	316.8
115°	124.8	124.8	172.8	243.2	285.9
117.5°	130.1	131.2	165.3	221.9	250.7
120°	133.3	134.4	154.7	197.4	215.5
122.5°	134.4	133.3	141.9	168.5	178.1
125°	132.3	130.1	125.9	139.7	145.1
127.5°	128.0	122.7	108.8	115.2	119.5
130°	120.5	112.0	98.1	94.9	100.3
132.5°	109.9	100.3	90.7	83.2	86.4
135°	96.0	88.5	85.3	76.8	80.0
137.5°	81.1	77.9	80.0	76.8	75.7
140°	68.3	69.3	74.7	74.7	74.7
142.5°	58.7	61.9	69.3	73.6	72.5
145°	51.2	54.4	65.1	71.5	71.5
147.5°	48.0	49.1	58.7	65.1	69.3
150°	44.8	45.9	55.5	60.8	62.9
152.5°	42.7	43.7	51.2	57.6	57.6
155°	41.6	41.6	48.0	53.3	55.5
157.5°	40.5	40.5	44.8	50.1	52.3
160°	39.5	39.5	42.7	48.0	46.9
162.5°	39.5	38.4	40.5	43.7	43.7
165°	39.5	38.4	38.4	40.5	41.6
167.5°	39.5	38.4	37.3	38.4	38.4
170°	38.4	38.4	37.3	37.3	36.3
172.5°	38.4	38.4	38.4	37.3	36.3
175°	38.4	38.4	37.3	37.3	36.3
177.5°	38.4	38.4	38.4	37.3	36.3
180°	37.3	37.3	37.3	37.3	37.3

(END OF REPORT)