

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: P534486

Luminaire Tested: **S920DIP-W240-XX4XX-UDD-W-PC**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29792)
Test Lab: INNOVATION CENTER
Issue Date: 6/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S920DIP-W240-XX4XX-UDD-W-PC
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE RECTANCULAR HOUSING WITH PERFORATED UPLIGHT COVER
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

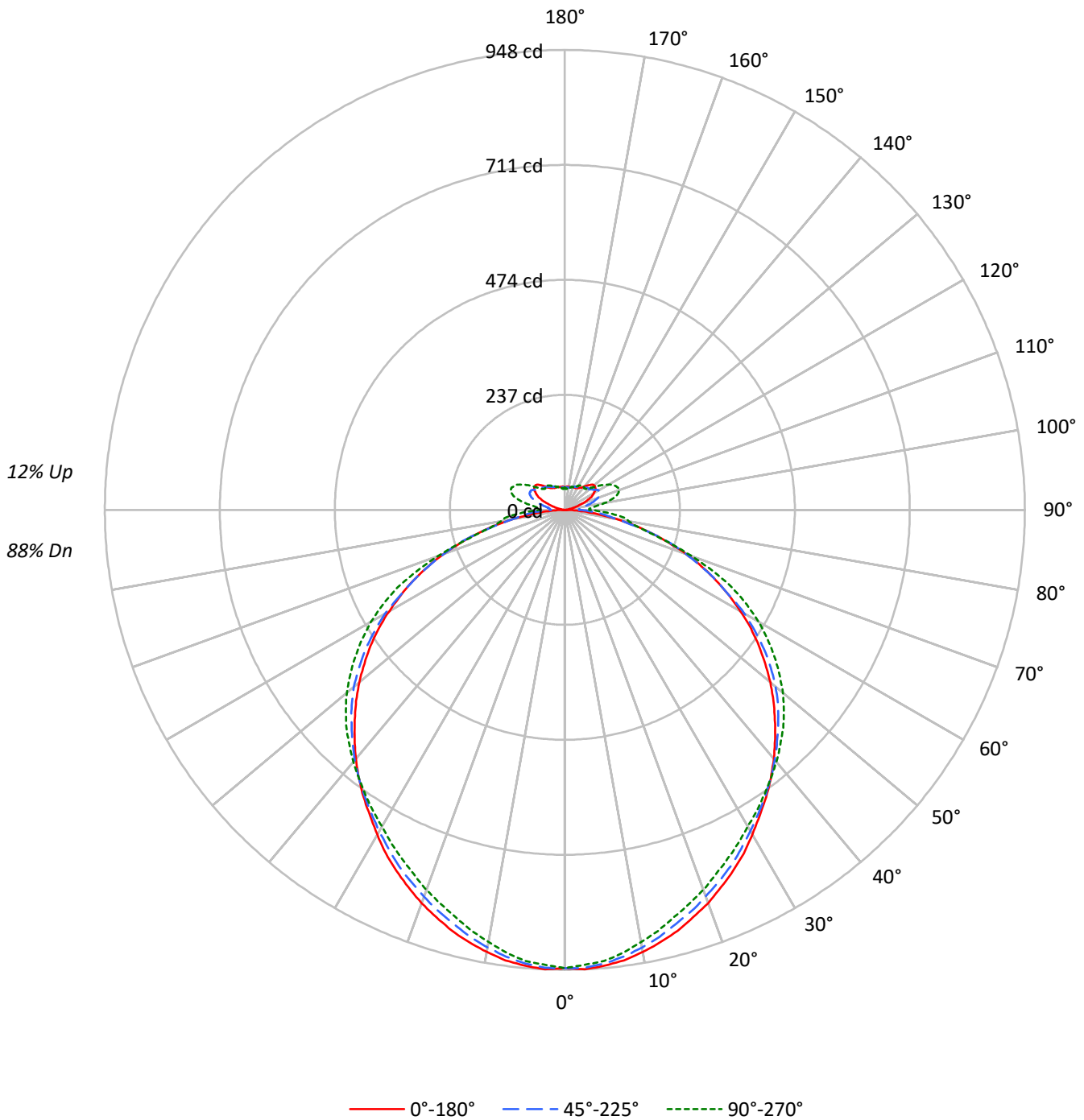
Lumens per Lamp: N/A
Luminaire Lumens: 3089.9 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: Semi-Direct

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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88
1	106	101	96	92	102	97	93	90	91	88	85	85	82	80	79	77	75	73
2	96	87	81	75	92	85	78	73	79	74	69	74	70	66	69	66	63	60
3	87	77	68	62	84	74	67	61	69	63	58	65	60	55	61	57	53	50
4	80	68	59	52	76	66	57	51	61	55	49	58	52	47	54	49	45	43
5	73	60	51	45	70	58	50	44	55	48	42	52	46	41	49	43	39	37
6	67	54	45	39	65	53	44	38	50	42	37	47	40	36	44	39	34	32
7	62	49	40	34	60	48	39	34	45	38	33	42	36	31	40	35	30	28
8	58	45	36	30	56	43	35	30	41	34	29	39	33	28	37	31	27	25
9	54	41	33	27	52	40	32	27	38	31	26	36	30	25	34	29	25	23
10	51	38	30	25	49	37	29	24	35	28	24	33	27	23	31	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3753	3753	3753
5°	3735	3622	3579
10°	3683	3464	3377
15°	3619	3301	3186
20°	3547	3154	3024
25°	3474	3019	2870
30°	3394	2882	2737
35°	3327	2762	2635
40°	3263	2653	2544
45°	3193	2538	2456
50°	3128	2420	2350
55°	3047	2258	2212
60°	2928	2055	2048
65°	2774	1789	1811
70°	2541	1514	1426
75°	2202	1169	1015
80°	1687	774	852
85°	935	608	720



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.7	2.9
10°-20°	249.1	8.1
20°-30°	372.1	12.0
30°-40°	450.4	14.6
40°-50°	480.2	15.5
50°-60°	449.5	14.5
60°-70°	349.9	11.3
70°-80°	194.8	6.3
80°-90°	75.2	2.4
90°-100°	36.5	1.2
100°-110°	65.1	2.1
110°-120°	80.1	2.6
120°-130°	69.1	2.2
130°-140°	50.3	1.6
140°-150°	36.6	1.2
150°-160°	24.3	0.8
160°-170°	13.8	0.4
170°-180°	4.4	0.1
0°-30°	709.9	23.0
0°-40°	1160.3	37.6
0°-60°	2090.0	67.6
0°-90°	2709.9	87.7
90°-120°	181.6	5.9
90°-150°	337.6	10.9
90°-180°	380.0	12.3
0°-180°	3089.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	945	945	945	945	945	
5°	943	937	938	935	934	89
15°	898	889	884	874	869	253
25°	821	815	810	797	794	378
35°	723	721	720	717	717	452
45°	612	612	622	632	636	473
55°	488	488	501	516	527	436
65°	344	342	344	371	381	339
75°	185	180	183	180	178	195
85°	39	45	71	90	98	46
90°	0	14	29	42	50	2
95°	3	18	32	47	58	4
105°	22	35	58	92	109	25
115°	58	58	80	103	116	56
125°	77	72	72	82	87	68
135°	72	66	64	61	61	56
145°	56	56	58	61	61	35
155°	50	50	53	55	53	23
165°	48	48	48	48	48	14
175°	48	47	47	47	43	5
180°	47	47	47	47	47	

TEST NUMBER: P534486

CATALOG NUMBER: S920DIP-W240-XX4XX-UDD-W-PC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	<i>944.8</i>	944.8	944.8	944.8	944.8
2.5°	<i>948.0</i>	<i>941.6</i>	<i>944.8</i>	<i>943.2</i>	<i>938.4</i>
5°	<i>943.2</i>	936.8	938.4	935.2	933.5
7.5°	<i>936.8</i>	928.7	928.7	923.9	920.7
10°	<i>925.5</i>	917.5	915.9	907.8	904.6
12.5°	<i>912.7</i>	904.6	901.4	891.8	888.6
15°	<i>898.2</i>	888.6	883.7	874.1	869.3
17.5°	<i>880.5</i>	872.5	867.7	856.4	851.6
20°	<i>862.8</i>	854.8	848.4	837.1	833.9
22.5°	<i>842.0</i>	833.9	829.1	816.2	813.0
25°	<i>821.1</i>	814.6	809.8	797.0	793.8
27.5°	<i>798.6</i>	792.1	787.3	777.7	774.5
30°	<i>772.9</i>	769.7	764.8	755.2	753.6
32.5°	<i>747.2</i>	745.6	742.3	735.9	735.9
35°	<i>723.1</i>	721.4	719.8	716.6	716.6
37.5°	<i>697.3</i>	695.7	697.3	695.7	697.3
40°	<i>670.0</i>	668.4	673.2	674.9	678.1
42.5°	<i>641.1</i>	641.1	647.5	654.0	657.2
45°	<i>612.2</i>	612.2	621.8	631.5	636.3
47.5°	<i>583.3</i>	583.3	596.1	605.8	612.2
50°	<i>552.7</i>	552.7	567.2	578.4	586.5
52.5°	<i>520.6</i>	520.6	535.1	549.5	557.6
55°	<i>488.5</i>	488.5	501.3	515.8	527.0
57.5°	<i>454.7</i>	454.7	464.4	483.6	494.9
60°	<i>417.8</i>	419.4	427.4	448.3	461.1
62.5°	<i>380.8</i>	380.8	382.4	411.3	422.6
65°	<i>343.9</i>	342.2	343.9	371.2	380.8
67.5°	<i>305.3</i>	302.1	303.7	331.0	331.0
70°	<i>265.1</i>	260.3	265.1	279.6	276.4
72.5°	<i>223.3</i>	218.5	228.2	226.6	223.3
75°	<i>184.8</i>	180.0	183.2	180.0	178.4
77.5°	<i>144.6</i>	141.4	139.8	141.4	146.2
80°	<i>106.0</i>	107.7	106.0	123.7	133.4
82.5°	<i>69.1</i>	72.3	85.2	112.5	123.7
85°	<i>38.6</i>	45.0	70.7	90.0	98.0
87.5°	<i>14.5</i>	28.9	46.6	62.7	70.7
90°	<i>0.0</i>	14.5	28.9	41.8	49.8
92.5°	<i>1.6</i>	14.5	30.5	41.8	49.8
95°	<i>3.2</i>	17.7	32.1	46.6	57.8
97.5°	<i>4.8</i>	20.9	35.3	56.2	69.1
100°	<i>9.6</i>	24.1	41.8	69.1	85.2
102.5°	<i>16.1</i>	28.9	49.8	81.9	98.0
105°	<i>22.5</i>	35.3	57.8	91.6	109.3
107.5°	<i>30.5</i>	40.2	65.9	98.0	115.7
110°	<i>40.2</i>	46.6	72.3	101.2	118.9



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CATALOG NUMBER: S920DIP-W240-XX4XX-UDD-W-PC

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	48.2	51.4	77.1	102.8	118.9
115°	57.8	57.8	80.3	102.8	115.7
117.5°	64.3	62.7	80.3	101.2	112.5
120°	69.1	67.5	80.3	98.0	104.4
122.5°	73.9	70.7	77.1	90.0	96.4
125°	77.1	72.3	72.3	81.9	86.8
127.5°	78.7	72.3	69.1	73.9	77.1
130°	78.7	72.3	65.9	65.9	70.7
132.5°	77.1	69.1	65.9	61.1	64.3
135°	72.3	65.9	64.3	61.1	61.1
137.5°	67.5	62.7	62.7	61.1	59.5
140°	62.7	61.1	61.1	61.1	61.1
142.5°	57.8	57.8	59.5	61.1	61.1
145°	56.2	56.2	57.8	61.1	61.1
147.5°	53.0	53.0	56.2	59.5	59.5
150°	51.4	53.0	54.6	57.8	57.8
152.5°	51.4	51.4	53.0	56.2	54.6
155°	49.8	49.8	53.0	54.6	53.0
157.5°	49.8	49.8	51.4	53.0	53.0
160°	49.8	48.2	49.8	51.4	49.8
162.5°	49.8	48.2	49.8	49.8	49.8
165°	48.2	48.2	48.2	48.2	48.2
167.5°	48.2	48.2	46.6	48.2	46.6
170°	48.2	46.6	46.6	46.6	45.0
172.5°	48.2	46.6	46.6	46.6	45.0
175°	48.2	46.6	46.6	46.6	43.4
177.5°	46.6	46.6	46.6	46.6	43.4
180°	46.6	46.6	46.6	46.6	46.6

(END OF REPORT)