

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: P534481

Luminaire Tested: **S920DIP-W230-XX4XX-UDD-W-SC**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534481
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29793)
Test Lab: INNOVATION CENTER
Issue Date: 6/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S920DIP-W230-XX4XX-UDD-W-SC
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE RECTANCULAR HOUSING WITH SOLID UPLIGHT COVER
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

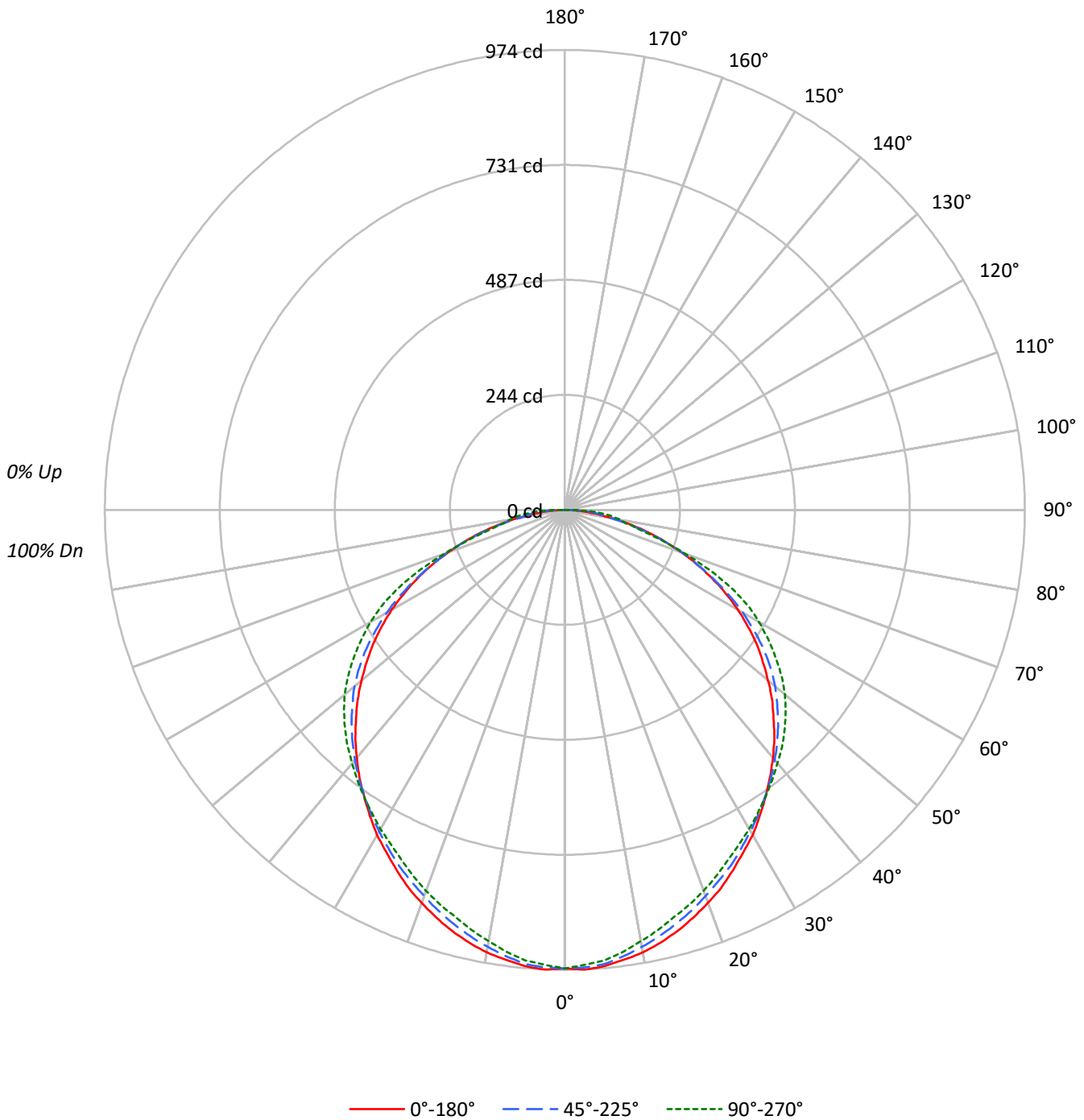
Lumens per Lamp: N/A
Luminaire Lumens: 2747.4 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: Direct

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3859	3859	3859
5°	3842	3727	3673
10°	3788	3555	3464
15°	3720	3393	3274
20°	3642	3237	3113
25°	3562	3100	2957
30°	3492	2962	2834
35°	3409	2838	2725
40°	3337	2725	2628
45°	3260	2606	2541
50°	3179	2480	2438
55°	3091	2313	2289
60°	2966	2093	2108
65°	2782	1817	1841
70°	2512	1505	1391
75°	2154	1115	951
80°	1606	693	751
85°	913	492	542



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	3.3
10°-20°	255.9	9.3
20°-30°	382.4	13.9
30°-40°	463.4	16.9
40°-50°	493.5	18.0
50°-60°	460.5	16.8
60°-70°	353.7	12.9
70°-80°	187.4	6.8
80°-90°	59.4	2.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	729.5	26.6
0°-40°	1192.9	43.4
0°-60°	2146.9	78.1
0°-90°	2747.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2747.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	972	972	972	972	972	
5°	970	964	966	961	958	92
15°	923	914	908	899	893	260
25°	842	834	831	821	818	388
35°	741	740	740	740	741	464
45°	625	627	639	652	658	483
55°	496	499	514	533	545	442
65°	345	345	349	380	387	340
75°	181	176	175	169	167	191
85°	38	39	57	69	74	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	971.5	971.5	971.5	971.5	971.5
2.5°	974.5	968.5	970.0	968.5	964.0
5°	970.0	964.0	965.5	961.0	958.0
7.5°	961.0	954.9	953.4	947.4	944.4
10°	951.9	942.9	939.9	932.4	927.8
12.5°	938.4	930.8	924.8	915.8	911.3
15°	923.3	914.3	908.3	899.2	893.2
17.5°	905.2	896.2	890.2	881.1	876.6
20°	885.7	876.6	870.6	860.1	858.5
22.5°	866.1	857.0	851.0	840.5	839.0
25°	842.0	834.4	831.4	820.9	817.9
27.5°	817.9	811.9	808.8	801.3	798.3
30°	795.3	789.3	786.2	780.2	780.2
32.5°	768.2	765.2	763.7	759.1	760.6
35°	741.1	739.6	739.6	739.6	741.1
37.5°	713.9	712.4	717.0	718.5	721.5
40°	685.3	683.8	691.4	695.9	700.4
42.5°	656.7	656.7	665.8	674.8	680.8
45°	625.1	626.6	638.6	652.2	658.2
47.5°	595.0	596.5	610.0	626.6	634.1
50°	561.8	564.8	581.4	598.0	608.5
52.5°	528.7	531.7	548.3	567.8	578.4
55°	495.5	498.6	513.6	533.2	545.3
57.5°	459.4	462.4	474.5	495.5	510.6
60°	423.2	426.3	435.3	459.4	474.5
62.5°	384.1	385.6	391.6	423.2	435.3
65°	344.9	344.9	349.4	379.6	387.1
67.5°	304.3	302.8	304.3	328.4	329.9
70°	262.1	260.6	263.6	272.6	269.6
72.5°	221.4	218.4	221.4	215.4	213.9
75°	180.7	176.2	174.7	168.7	167.2
77.5°	140.1	138.6	132.5	129.5	134.1
80°	100.9	103.9	94.9	110.0	117.5
82.5°	67.8	67.8	75.3	91.9	99.4
85°	37.7	39.2	57.2	69.3	73.8
87.5°	12.0	22.6	33.1	40.7	43.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)