

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: P534487

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

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534487
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-W240-XX4XX-UDD-W-SC
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE RECTANGULAR HOUSING WITH SOLID UPLIGHT COVER
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

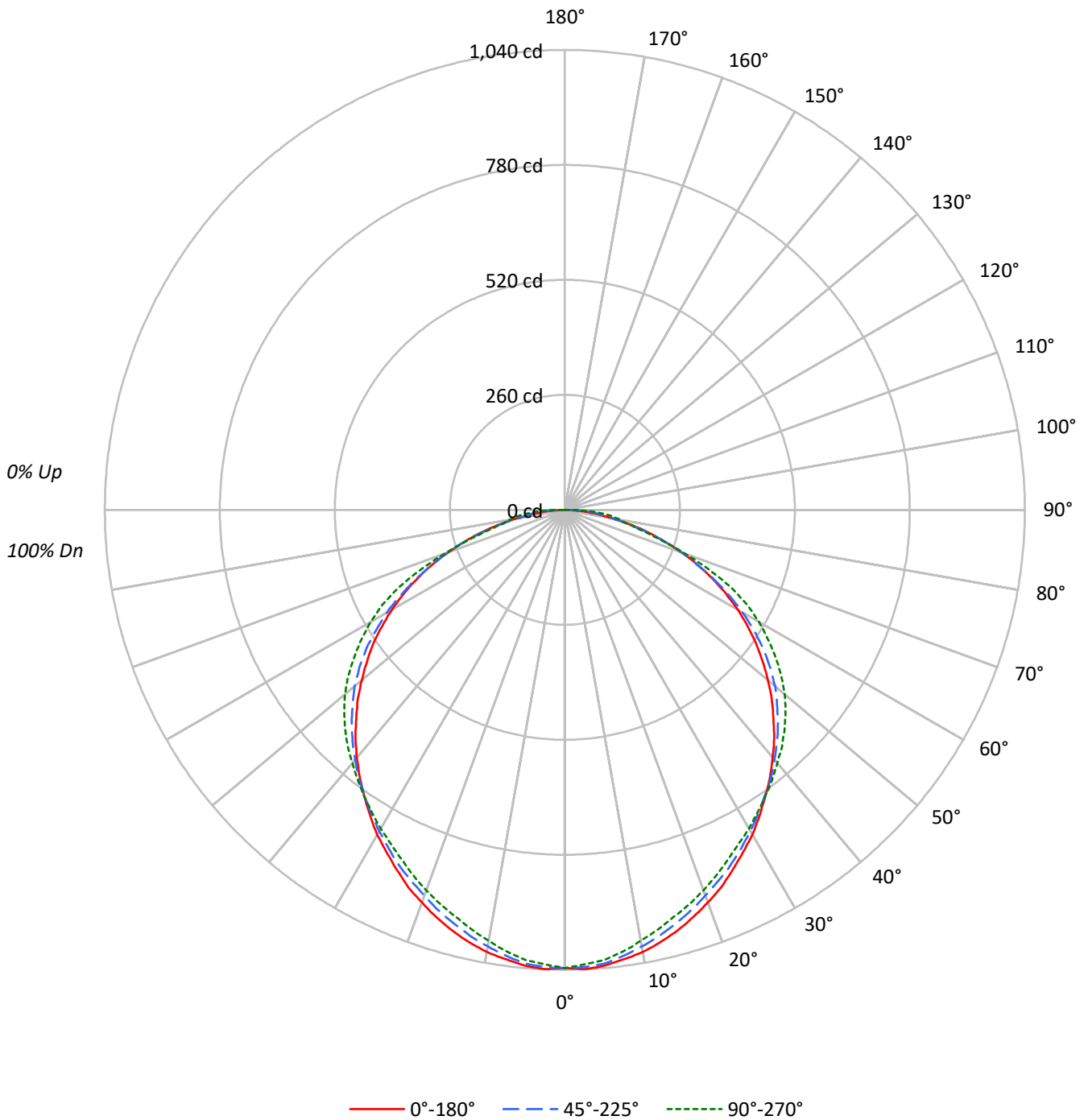
Lumens per Lamp: N/A
Luminaire Lumens: 2930.8 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: Direct

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	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°	4117	4117	4117
5°	4098	3975	3918
10°	4041	3792	3696
15°	3968	3619	3492
20°	3885	3453	3321
25°	3800	3307	3154
30°	3725	3160	3023
35°	3637	3028	2907
40°	3560	2906	2804
45°	3477	2781	2711
50°	3392	2646	2601
55°	3297	2468	2441
60°	3164	2233	2248
65°	2968	1939	1964
70°	2680	1606	1484
75°	2298	1190	1015
80°	1714	739	800
85°	974	525	578



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.2	3.3
10°-20°	273.0	9.3
20°-30°	408.0	13.9
30°-40°	494.3	16.9
40°-50°	526.4	18.0
50°-60°	491.2	16.8
60°-70°	377.3	12.9
70°-80°	200.0	6.8
80°-90°	63.4	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°	778.2	26.6
0°-40°	1272.5	43.4
0°-60°	2290.2	78.1
0°-90°	2930.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2930.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1036	1036	1036	1036	1036	
5°	1035	1028	1030	1025	1022	98
15°	985	975	969	959	953	278
25°	898	890	887	876	872	414
35°	790	789	789	789	790	495
45°	667	668	681	696	702	515
55°	529	532	548	569	582	472
65°	368	368	373	405	413	363
75°	193	188	186	180	178	204
85°	40	42	61	74	79	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1036.4	1036.4	1036.4	1036.4	1036.4
2.5°	1039.6	1033.2	1034.8	1033.2	1028.3
5°	1034.8	1028.3	1029.9	1025.1	1021.9
7.5°	1025.1	1018.7	1017.1	1010.7	1007.5
10°	1015.5	1005.8	1002.6	994.6	989.8
12.5°	1001.0	993.0	986.6	976.9	972.1
15°	985.0	975.3	968.9	959.3	952.8
17.5°	965.7	956.0	949.6	940.0	935.1
20°	944.8	935.1	928.7	917.5	915.9
22.5°	923.9	914.3	907.8	896.6	895.0
25°	898.2	890.2	886.9	875.7	872.5
27.5°	872.5	866.1	862.8	854.8	851.6
30°	848.4	842.0	838.7	832.3	832.3
32.5°	819.5	816.2	814.6	809.8	811.4
35°	790.5	788.9	788.9	788.9	790.5
37.5°	761.6	760.0	764.8	766.4	769.6
40°	731.1	729.5	737.5	742.3	747.2
42.5°	700.6	700.6	710.2	719.8	726.3
45°	666.8	668.4	681.3	695.7	702.2
47.5°	634.7	636.3	650.7	668.4	676.5
50°	599.3	602.5	620.2	637.9	649.1
52.5°	564.0	567.2	584.9	605.8	617.0
55°	528.6	531.8	547.9	568.8	581.7
57.5°	490.1	493.3	506.1	528.6	544.7
60°	451.5	454.7	464.4	490.1	506.1
62.5°	409.7	411.3	417.8	451.5	464.4
65°	368.0	368.0	372.8	404.9	412.9
67.5°	324.6	323.0	324.6	350.3	351.9
70°	279.6	278.0	281.2	290.8	287.6
72.5°	236.2	233.0	236.2	229.8	228.2
75°	192.8	188.0	186.4	180.0	178.4
77.5°	149.4	147.8	141.4	138.2	143.0
80°	107.7	110.9	101.2	117.3	125.3
82.5°	72.3	72.3	80.3	98.0	106.0
85°	40.2	41.8	61.1	73.9	78.7
87.5°	12.9	24.1	35.3	43.4	46.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)