

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: P534496

Luminaire Tested: **S920DIP-W340-XX4XX-UDD-W-SC**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534496
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-W340-XX4XX-UDD-W-SC
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE RECTANCULAR HOUSING WITH SOLID UPLIGHT COVER
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

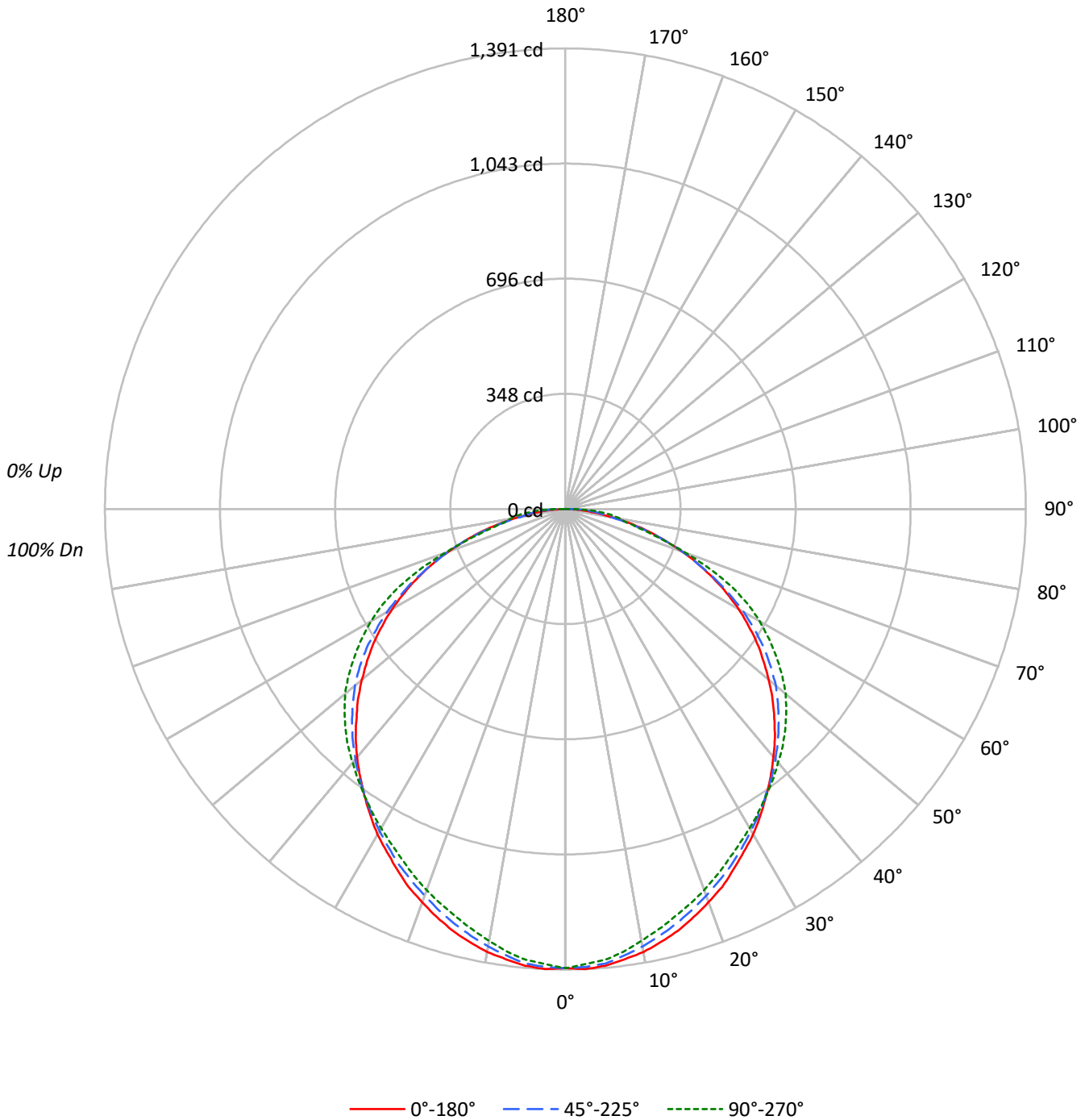
Lumens per Lamp: N/A
Luminaire Lumens: 3921.4 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: Direct

Input Watts (W): 38.5
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°	5507	5507	5507
5°	5483	5319	5243
10°	5406	5074	4944
15°	5310	4843	4673
20°	5197	4620	4444
25°	5084	4424	4221
30°	4984	4228	4045
35°	4866	4051	3889
40°	4764	3889	3751
45°	4653	3720	3627
50°	4538	3540	3479
55°	4412	3302	3266
60°	4234	2988	3008
65°	3970	2594	2628
70°	3585	2148	1986
75°	3075	1592	1357
80°	2292	988	1071
85°	1301	702	774



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	3.3
10°-20°	365.3	9.3
20°-30°	545.9	13.9
30°-40°	661.4	16.9
40°-50°	704.4	18.0
50°-60°	657.3	16.8
60°-70°	504.8	12.9
70°-80°	267.5	6.8
80°-90°	84.8	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°	1041.2	26.6
0°-40°	1702.6	43.4
0°-60°	3064.3	78.1
0°-90°	3921.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3921.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1387	1387	1387	1387	1387	
5°	1384	1376	1378	1372	1367	131
15°	1318	1305	1296	1284	1275	371
25°	1202	1191	1187	1172	1167	554
35°	1058	1056	1056	1056	1058	662
45°	892	894	912	931	940	689
55°	707	712	733	761	778	631
65°	492	492	499	542	552	486
75°	258	252	249	241	239	272
85°	54	56	82	99	105	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1386.6	1386.6	1386.6	1386.6	1386.6
2.5°	1390.9	1382.3	1384.5	1382.3	1375.9
5°	1384.5	1375.9	1378.1	1371.6	1367.3
7.5°	1371.6	1363.0	1360.9	1352.3	1348.0
10°	1358.7	1345.8	1341.5	1330.8	1324.3
12.5°	1339.4	1328.6	1320.0	1307.1	1300.7
15°	1317.9	1305.0	1296.4	1283.5	1274.9
17.5°	1292.1	1279.2	1270.6	1257.7	1251.2
20°	1264.1	1251.2	1242.6	1227.6	1225.4
22.5°	1236.2	1223.3	1214.7	1199.6	1197.5
25°	1201.8	1191.0	1186.7	1171.7	1167.4
27.5°	1167.4	1158.8	1154.5	1143.7	1139.4
30°	1135.1	1126.5	1122.2	1113.6	1113.6
32.5°	1096.4	1092.1	1090.0	1083.5	1085.7
35°	1057.7	1055.6	1055.6	1055.6	1057.7
37.5°	1019.0	1016.9	1023.3	1025.5	1029.8
40°	978.2	976.0	986.8	993.2	999.7
42.5°	937.3	937.3	950.2	963.1	971.7
45°	892.2	894.3	911.5	930.9	939.5
47.5°	849.2	851.3	870.7	894.3	905.1
50°	801.9	806.2	829.8	853.5	868.5
52.5°	754.6	758.9	782.5	810.5	825.5
55°	707.3	711.6	733.1	761.0	778.2
57.5°	655.7	660.0	677.2	707.3	728.8
60°	604.1	608.4	621.3	655.7	677.2
62.5°	548.2	550.4	559.0	604.1	621.3
65°	492.3	492.3	498.8	541.8	552.5
67.5°	434.3	432.1	434.3	468.7	470.8
70°	374.1	371.9	376.2	389.1	384.8
72.5°	316.0	311.7	316.0	307.4	305.3
75°	258.0	251.5	249.4	240.8	238.6
77.5°	199.9	197.8	189.2	184.9	191.3
80°	144.0	148.3	135.4	156.9	167.7
82.5°	96.7	96.7	107.5	131.1	141.9
85°	53.7	55.9	81.7	98.9	105.3
87.5°	17.2	32.2	47.3	58.0	62.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)