

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: P534499

Luminaire Tested: **S920DIP-W430-XX4XX-UDD-W-SC**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534499
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-W430-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

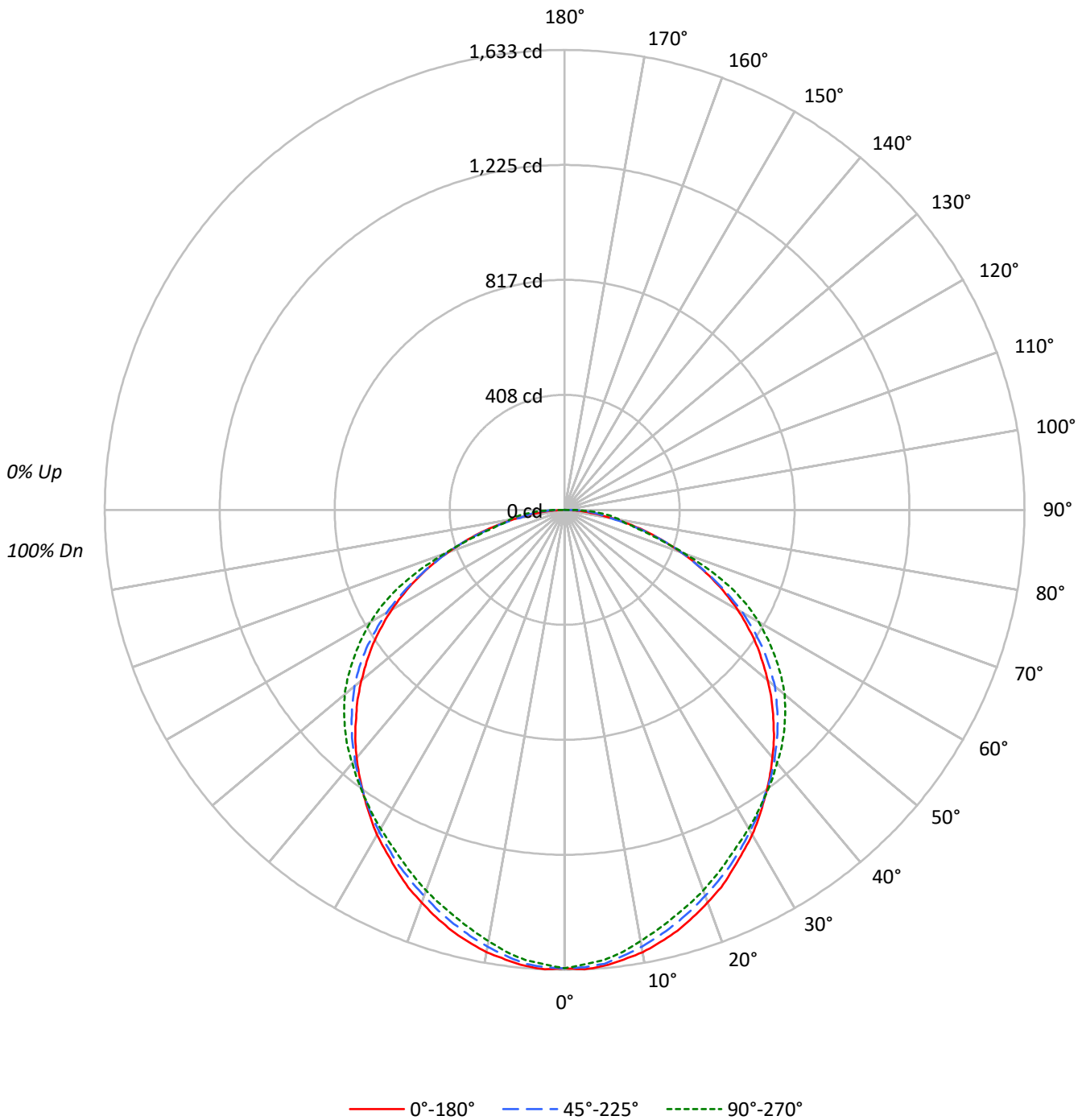
Lumens per Lamp: N/A
Luminaire Lumens: 4603.5 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: Direct

Input Watts (W): 50.7
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				100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83				83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69				69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58				58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49				49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42				42
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37				37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33				33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29				29
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26				26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24				24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6465	6465	6465
5°	6437	6244	6155
10°	6347	5956	5805
15°	6233	5685	5485
20°	6101	5423	5217
25°	5968	5194	4954
30°	5851	4964	4748
35°	5712	4756	4566
40°	5592	4565	4404
45°	5462	4367	4258
50°	5328	4156	4085
55°	5180	3876	3834
60°	4970	3508	3532
65°	4661	3045	3085
70°	4208	2522	2332
75°	3610	1869	1593
80°	2691	1160	1258
85°	1529	824	909



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.7	3.3
10°-20°	428.8	9.3
20°-30°	640.8	13.9
30°-40°	776.4	16.9
40°-50°	826.9	18.0
50°-60°	771.6	16.8
60°-70°	592.6	12.9
70°-80°	314.1	6.8
80°-90°	99.6	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°	1222.3	26.6
0°-40°	1998.8	43.4
0°-60°	3597.3	78.1
0°-90°	4603.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4603.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1628	1628	1628	1628	1628	
5°	1625	1615	1618	1610	1605	154
15°	1547	1532	1522	1507	1497	436
25°	1411	1398	1393	1376	1370	651
35°	1242	1239	1239	1239	1242	778
45°	1047	1050	1070	1093	1103	809
55°	830	835	861	893	914	741
65°	578	578	586	636	649	570
75°	303	295	293	283	280	320
85°	63	66	96	116	124	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1627.8	1627.8	1627.8	1627.8	1627.8
2.5°	1632.9	1622.8	1625.3	1622.8	1615.2
5°	1625.3	1615.2	1617.7	1610.2	1605.1
7.5°	1610.2	1600.1	1597.6	1587.5	1582.4
10°	1595.0	1579.9	1574.8	1562.2	1554.7
12.5°	1572.3	1559.7	1549.6	1534.5	1526.9
15°	1547.1	1531.9	1521.8	1506.7	1496.6
17.5°	1516.8	1501.7	1491.6	1476.4	1468.8
20°	1484.0	1468.8	1458.7	1441.1	1438.6
22.5°	1451.2	1436.0	1425.9	1408.3	1405.7
25°	1410.8	1398.2	1393.1	1375.5	1370.4
27.5°	1370.4	1360.3	1355.3	1342.7	1337.6
30°	1332.6	1322.5	1317.4	1307.3	1307.3
32.5°	1287.1	1282.1	1279.6	1272.0	1274.5
35°	1241.7	1239.2	1239.2	1239.2	1241.7
37.5°	1196.3	1193.8	1201.3	1203.8	1208.9
40°	1148.3	1145.8	1158.4	1166.0	1173.6
42.5°	1100.4	1100.4	1115.5	1130.7	1140.8
45°	1047.4	1049.9	1070.1	1092.8	1102.9
47.5°	996.9	999.4	1022.1	1049.9	1062.5
50°	941.4	946.4	974.2	1001.9	1019.6
52.5°	885.8	890.9	918.7	951.5	969.1
55°	830.3	835.4	860.6	893.4	913.6
57.5°	769.8	774.8	795.0	830.3	855.6
60°	709.2	714.2	729.4	769.8	795.0
62.5°	643.6	646.1	656.2	709.2	729.4
65°	577.9	577.9	585.5	636.0	648.6
67.5°	509.8	507.3	509.8	550.2	552.7
70°	439.1	436.6	441.7	456.8	451.8
72.5°	371.0	365.9	371.0	360.9	358.4
75°	302.9	295.3	292.8	282.7	280.1
77.5°	234.7	232.2	222.1	217.0	224.6
80°	169.1	174.1	159.0	184.2	196.9
82.5°	113.6	113.6	126.2	154.0	166.6
85°	63.1	65.6	95.9	116.1	123.7
87.5°	20.2	37.9	55.5	68.1	73.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)