

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: P534505

Luminaire Tested: **S920DIP-W440-XX4XX-UDD-W-SC**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534505
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-W440-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

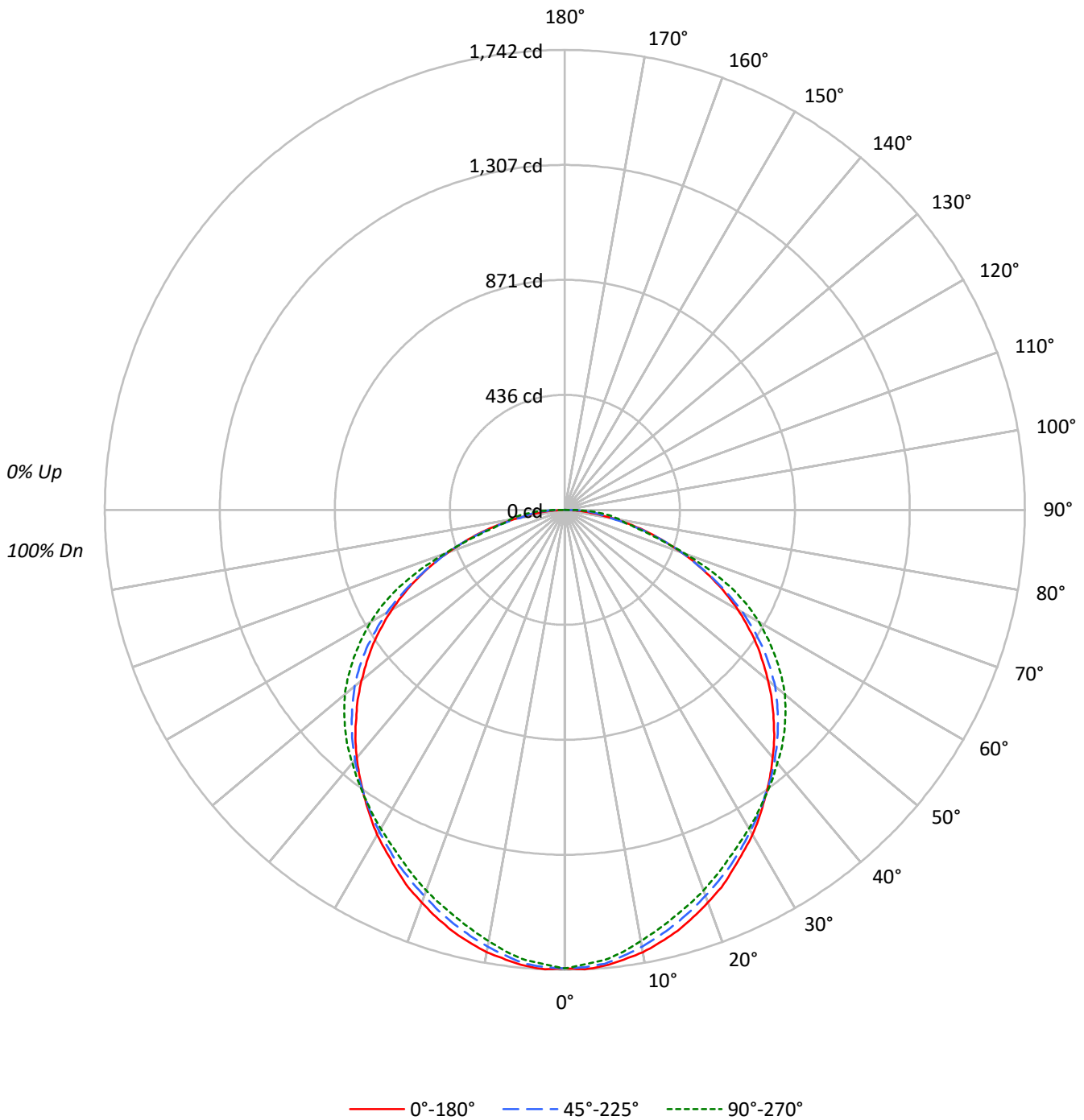
Lumens per Lamp: N/A
Luminaire Lumens: 4910.8 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: Direct

Input Watts (W): 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°	6897	6897	6897
5°	6867	6662	6566
10°	6770	6354	6192
15°	6649	6064	5851
20°	6509	5785	5565
25°	6367	5541	5285
30°	6242	5295	5065
35°	6094	5073	4871
40°	5966	4870	4697
45°	5827	4659	4542
50°	5683	4433	4358
55°	5526	4135	4090
60°	5302	3742	3767
65°	4972	3249	3291
70°	4490	2690	2487
75°	3851	1993	1699
80°	2871	1238	1341
85°	1630	879	969



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.9	3.3
10°-20°	457.5	9.3
20°-30°	683.6	13.9
30°-40°	828.3	16.9
40°-50°	882.1	18.0
50°-60°	823.1	16.8
60°-70°	632.1	12.9
70°-80°	335.0	6.8
80°-90°	106.2	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°	1303.9	26.6
0°-40°	2132.2	43.4
0°-60°	3837.4	78.1
0°-90°	4910.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4910.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1736	1736	1736	1736	1736	
5°	1734	1723	1726	1718	1712	164
15°	1650	1634	1623	1607	1596	465
25°	1505	1492	1486	1467	1462	694
35°	1325	1322	1322	1322	1325	830
45°	1117	1120	1142	1166	1176	863
55°	886	891	918	953	975	790
65°	616	616	625	678	692	608
75°	323	315	312	302	299	341
85°	67	70	102	124	132	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1736.5	1736.5	1736.5	1736.5	1736.5
2.5°	1741.9	1731.1	1733.8	1731.1	1723.1
5°	1733.8	1723.1	1725.8	1717.7	1712.3
7.5°	1717.7	1706.9	1704.2	1693.4	1688.1
10°	1701.5	1685.4	1680.0	1666.5	1658.4
12.5°	1677.3	1663.8	1653.1	1636.9	1628.8
15°	1650.4	1634.2	1623.4	1607.3	1596.5
17.5°	1618.1	1601.9	1591.1	1575.0	1566.9
20°	1583.1	1566.9	1556.1	1537.3	1534.6
22.5°	1548.1	1531.9	1521.1	1502.3	1499.6
25°	1505.0	1491.5	1486.1	1467.3	1461.9
27.5°	1461.9	1451.1	1445.8	1432.3	1426.9
30°	1421.5	1410.8	1405.4	1394.6	1394.6
32.5°	1373.1	1367.7	1365.0	1356.9	1359.6
35°	1324.6	1321.9	1321.9	1321.9	1324.6
37.5°	1276.1	1273.5	1281.5	1284.2	1289.6
40°	1225.0	1222.3	1235.8	1243.8	1251.9
42.5°	1173.8	1173.8	1190.0	1206.1	1216.9
45°	1117.3	1120.0	1141.5	1165.8	1176.5
47.5°	1063.5	1066.1	1090.4	1120.0	1133.5
50°	1004.2	1009.6	1039.2	1068.8	1087.7
52.5°	945.0	950.4	980.0	1015.0	1033.8
55°	885.8	891.1	918.1	953.1	974.6
57.5°	821.1	826.5	848.1	885.8	912.7
60°	756.5	761.9	778.1	821.1	848.1
62.5°	686.5	689.2	700.0	756.5	778.1
65°	616.5	616.5	624.6	678.5	691.9
67.5°	543.8	541.1	543.8	586.9	589.6
70°	468.5	465.8	471.1	487.3	481.9
72.5°	395.8	390.4	395.8	385.0	382.3
75°	323.1	315.0	312.3	301.5	298.8
77.5°	250.4	247.7	236.9	231.5	239.6
80°	180.4	185.8	169.6	196.5	210.0
82.5°	121.2	121.2	134.6	164.2	177.7
85°	67.3	70.0	102.3	123.8	131.9
87.5°	21.5	40.4	59.2	72.7	78.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)