

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: P534514

Luminaire Tested: **S920DIP-W540-XX4XX-UDD-W-SC**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534514
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-W540-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

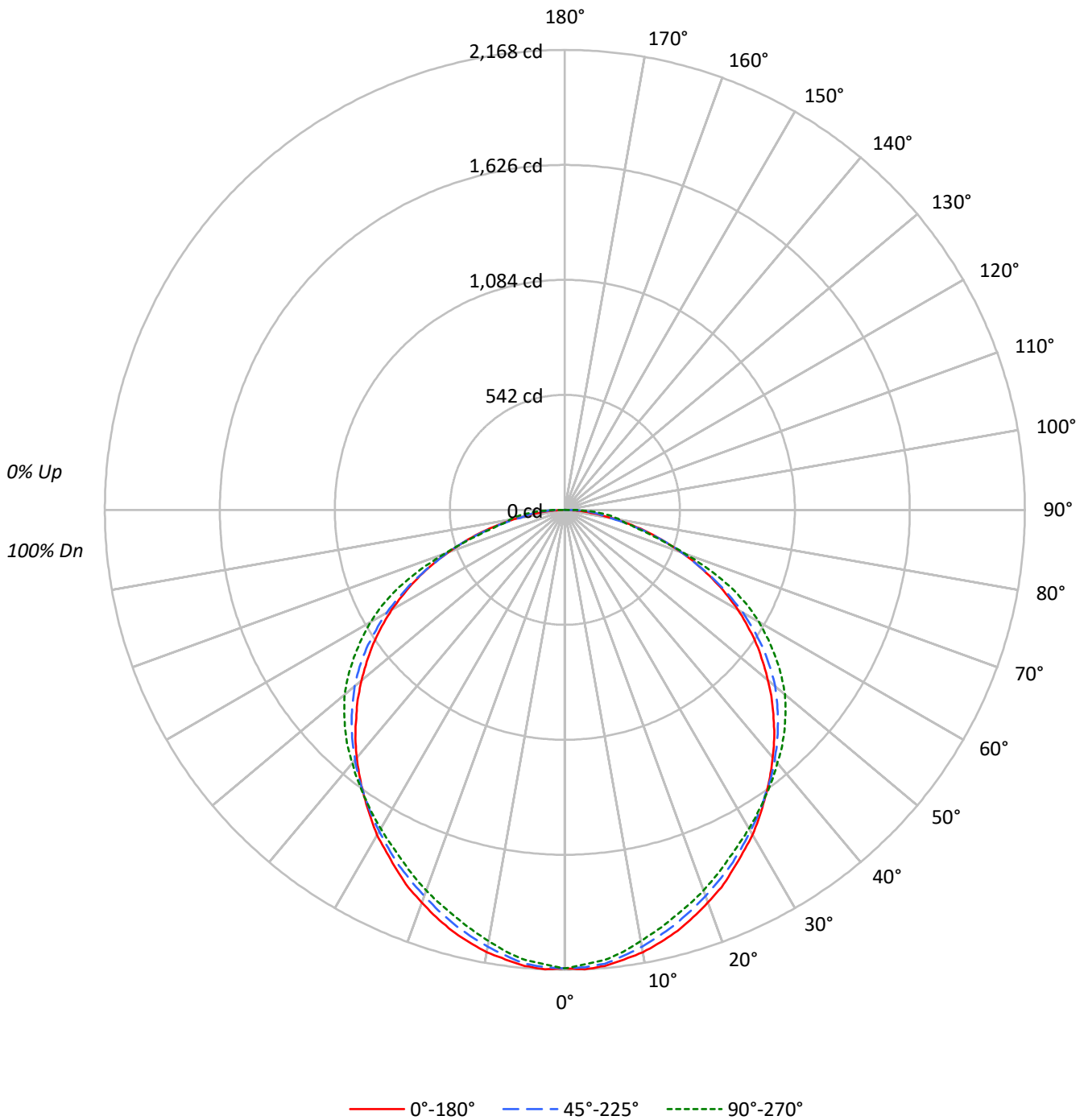
Lumens per Lamp: N/A
Luminaire Lumens: 6112.3 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: Direct

Input Watts (W): 68
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°	8585	8585	8585
5°	8547	8291	8172
10°	8427	7909	7707
15°	8276	7548	7283
20°	8101	7201	6926
25°	7925	6896	6578
30°	7769	6591	6305
35°	7585	6314	6062
40°	7425	6061	5847
45°	7253	5799	5653
50°	7074	5518	5424
55°	6878	5147	5091
60°	6599	4657	4689
65°	6189	4043	4096
70°	5588	3348	3095
75°	4792	2481	2116
80°	3573	1541	1670
85°	2030	1094	1207



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.8	3.3
10°-20°	569.4	9.3
20°-30°	850.8	13.9
30°-40°	1030.9	16.9
40°-50°	1097.9	18.0
50°-60°	1024.5	16.8
60°-70°	786.8	12.9
70°-80°	417.0	6.8
80°-90°	132.2	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°	1623.0	26.6
0°-40°	2653.9	43.4
0°-60°	4776.3	78.1
0°-90°	6112.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6112.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2161	2161	2161	2161	2161	
5°	2158	2145	2148	2138	2131	205
15°	2054	2034	2021	2000	1987	579
25°	1873	1856	1850	1826	1820	864
35°	1649	1645	1645	1645	1649	1032
45°	1391	1394	1421	1451	1464	1074
55°	1102	1109	1143	1186	1213	983
65°	767	767	777	844	861	757
75°	402	392	389	375	372	424
85°	84	87	127	154	164	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2161.4	2161.4	2161.4	2161.4	2161.4
2.5°	2168.1	2154.7	2158.0	2154.7	2144.6
5°	2158.0	2144.6	2148.0	2137.9	2131.2
7.5°	2137.9	2124.5	2121.2	2107.8	2101.1
10°	2117.8	2097.7	2091.0	2074.3	2064.2
12.5°	2087.7	2070.9	2057.5	2037.4	2027.3
15°	2054.2	2034.1	2020.6	2000.5	1987.1
17.5°	2013.9	1993.8	1980.4	1960.3	1950.3
20°	1970.4	1950.3	1936.9	1913.4	1910.1
22.5°	1926.8	1906.7	1893.3	1869.9	1866.5
25°	1873.2	1856.4	1849.7	1826.3	1819.6
27.5°	1819.6	1806.2	1799.5	1782.7	1776.0
30°	1769.3	1755.9	1749.2	1735.8	1735.8
32.5°	1709.0	1702.3	1699.0	1688.9	1692.3
35°	1648.7	1645.3	1645.3	1645.3	1648.7
37.5°	1588.4	1585.0	1595.1	1598.4	1605.1
40°	1524.7	1521.3	1538.1	1548.2	1558.2
42.5°	1461.0	1461.0	1481.1	1501.2	1514.6
45°	1390.7	1394.0	1420.8	1451.0	1464.4
47.5°	1323.6	1327.0	1357.2	1394.0	1410.8
50°	1249.9	1256.6	1293.5	1330.3	1353.8
52.5°	1176.2	1182.9	1219.8	1263.3	1286.8
55°	1102.5	1109.2	1142.7	1186.3	1213.1
57.5°	1022.1	1028.8	1055.6	1102.5	1136.0
60°	941.6	948.3	968.4	1022.1	1055.6
62.5°	854.5	857.9	871.3	941.6	968.4
65°	767.4	767.4	777.4	844.4	861.2
67.5°	676.9	673.5	676.9	730.5	733.9
70°	583.1	579.7	586.4	606.5	599.8
72.5°	492.6	485.9	492.6	479.2	475.8
75°	402.1	392.1	388.7	375.3	372.0
77.5°	311.6	308.3	294.9	288.2	298.2
80°	224.5	231.2	211.1	244.6	261.4
82.5°	150.8	150.8	167.5	204.4	221.2
85°	83.8	87.1	127.3	154.1	164.2
87.5°	26.8	50.3	73.7	90.5	97.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)