

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: P534511

Luminaire Tested: **S920DIP-W535-XX4XX-UDD-W-SC**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534511
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-W535-XX4XX-UDD-W-SC
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE RECTANCULAR HOUSING WITH SOLID UPLIGHT COVER
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

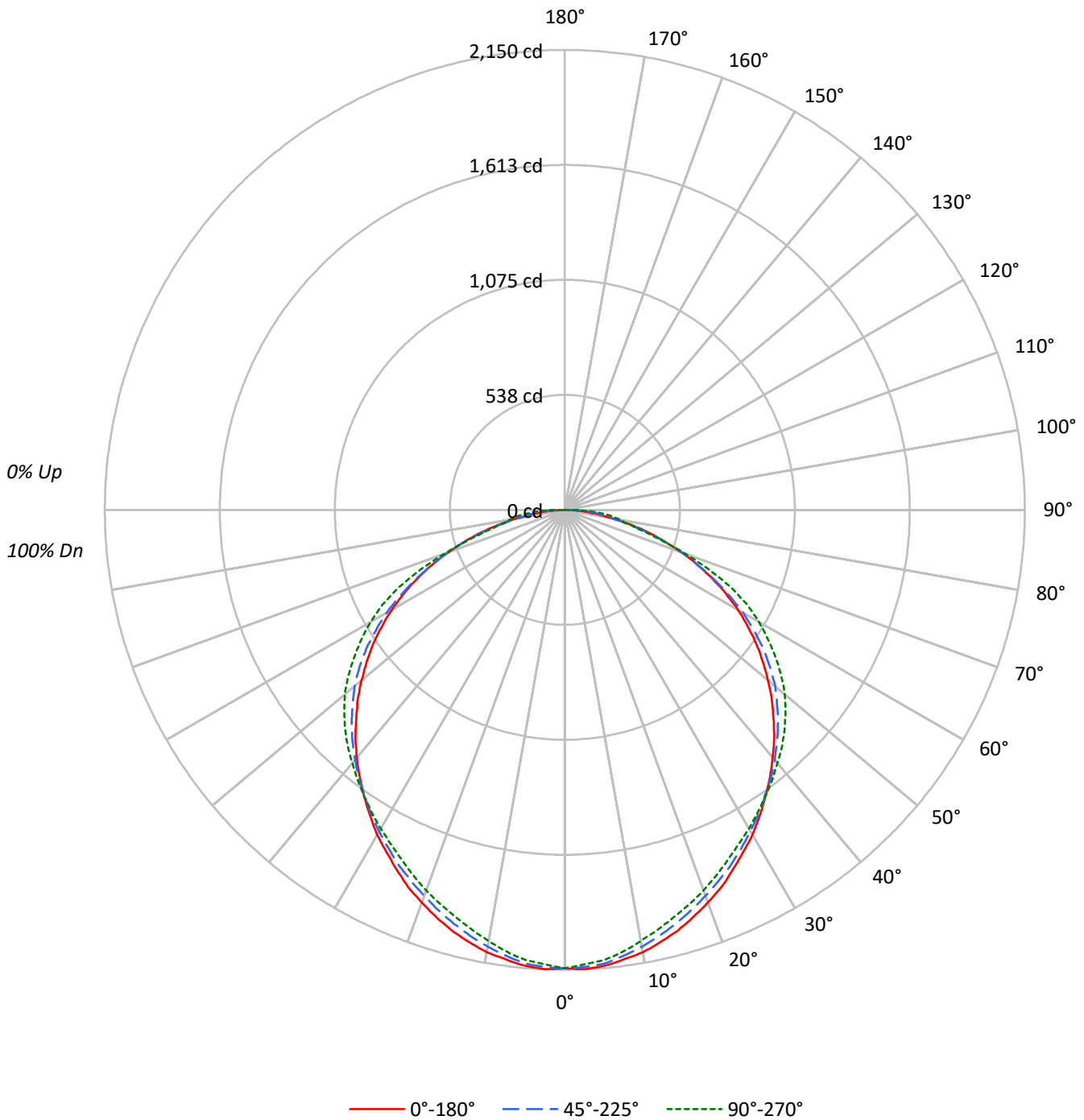
Lumens per Lamp: N/A
Luminaire Lumens: 6060.4 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: Direct

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	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°	8512	8512	8512
5°	8474	8221	8103
10°	8355	7841	7642
15°	8206	7484	7221
20°	8032	7139	6867
25°	7857	6838	6522
30°	7703	6535	6251
35°	7520	6261	6011
40°	7362	6010	5797
45°	7191	5749	5605
50°	7014	5471	5378
55°	6819	5103	5048
60°	6543	4618	4649
65°	6137	4009	4061
70°	5540	3320	3069
75°	4752	2460	2097
80°	3543	1527	1656
85°	2013	1086	1196



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.0	3.3
10°-20°	564.5	9.3
20°-30°	843.6	13.9
30°-40°	1022.1	16.9
40°-50°	1088.6	18.0
50°-60°	1015.8	16.8
60°-70°	780.1	12.9
70°-80°	413.5	6.8
80°-90°	131.1	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°	1609.2	26.6
0°-40°	2631.3	43.4
0°-60°	4735.7	78.1
0°-90°	6060.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6060.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2143	2143	2143	2143	2143	
5°	2140	2126	2130	2120	2113	203
15°	2037	2017	2004	1984	1970	574
25°	1857	1841	1834	1811	1804	857
35°	1635	1631	1631	1631	1635	1024
45°	1379	1382	1409	1439	1452	1065
55°	1093	1100	1133	1176	1203	975
65°	761	761	771	837	854	751
75°	399	389	385	372	369	421
85°	83	86	126	153	163	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2143.0	2143.0	2143.0	2143.0	2143.0
2.5°	2149.7	2136.4	2139.7	2136.4	2126.4
5°	2139.7	2126.4	2129.7	2119.8	2113.1
7.5°	2119.8	2106.5	2103.2	2089.9	2083.2
10°	2099.8	2079.9	2073.2	2056.6	2046.7
12.5°	2069.9	2053.3	2040.0	2020.1	2010.1
15°	2036.7	2016.8	2003.5	1983.5	1970.2
17.5°	1996.8	1976.9	1963.6	1943.7	1933.7
20°	1953.6	1933.7	1920.4	1897.2	1893.8
22.5°	1910.4	1890.5	1877.2	1854.0	1850.6
25°	1857.3	1840.7	1834.0	1810.8	1804.1
27.5°	1804.1	1790.8	1784.2	1767.6	1760.9
30°	1754.3	1741.0	1734.4	1721.1	1721.1
32.5°	1694.5	1687.8	1684.5	1674.5	1677.9
35°	1634.7	1631.4	1631.4	1631.4	1634.7
37.5°	1574.9	1571.5	1581.5	1584.8	1591.5
40°	1511.7	1508.4	1525.0	1535.0	1545.0
42.5°	1448.6	1448.6	1468.6	1488.5	1501.8
45°	1378.8	1382.2	1408.7	1438.6	1451.9
47.5°	1312.4	1315.7	1345.6	1382.2	1398.8
50°	1239.3	1245.9	1282.5	1319.0	1342.3
52.5°	1166.2	1172.8	1209.4	1252.6	1275.8
55°	1093.1	1099.8	1133.0	1176.2	1202.7
57.5°	1013.4	1020.0	1046.6	1093.1	1126.3
60°	933.6	940.3	960.2	1013.4	1046.6
62.5°	847.2	850.6	863.9	933.6	960.2
65°	760.9	760.9	770.8	837.3	853.9
67.5°	671.1	667.8	671.1	724.3	727.6
70°	578.1	574.8	581.4	601.4	594.7
72.5°	488.4	481.8	488.4	475.1	471.8
75°	398.7	388.7	385.4	372.1	368.8
77.5°	309.0	305.7	292.4	285.7	295.7
80°	222.6	229.3	209.3	242.5	259.2
82.5°	149.5	149.5	166.1	202.7	219.3
85°	83.1	86.4	126.3	152.8	162.8
87.5°	26.6	49.8	73.1	89.7	96.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)