

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: P534510

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

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534510
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29792)
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-PC
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE RECTANCULAR HOUSING WITH PERFORATED UPLIGHT COVER
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

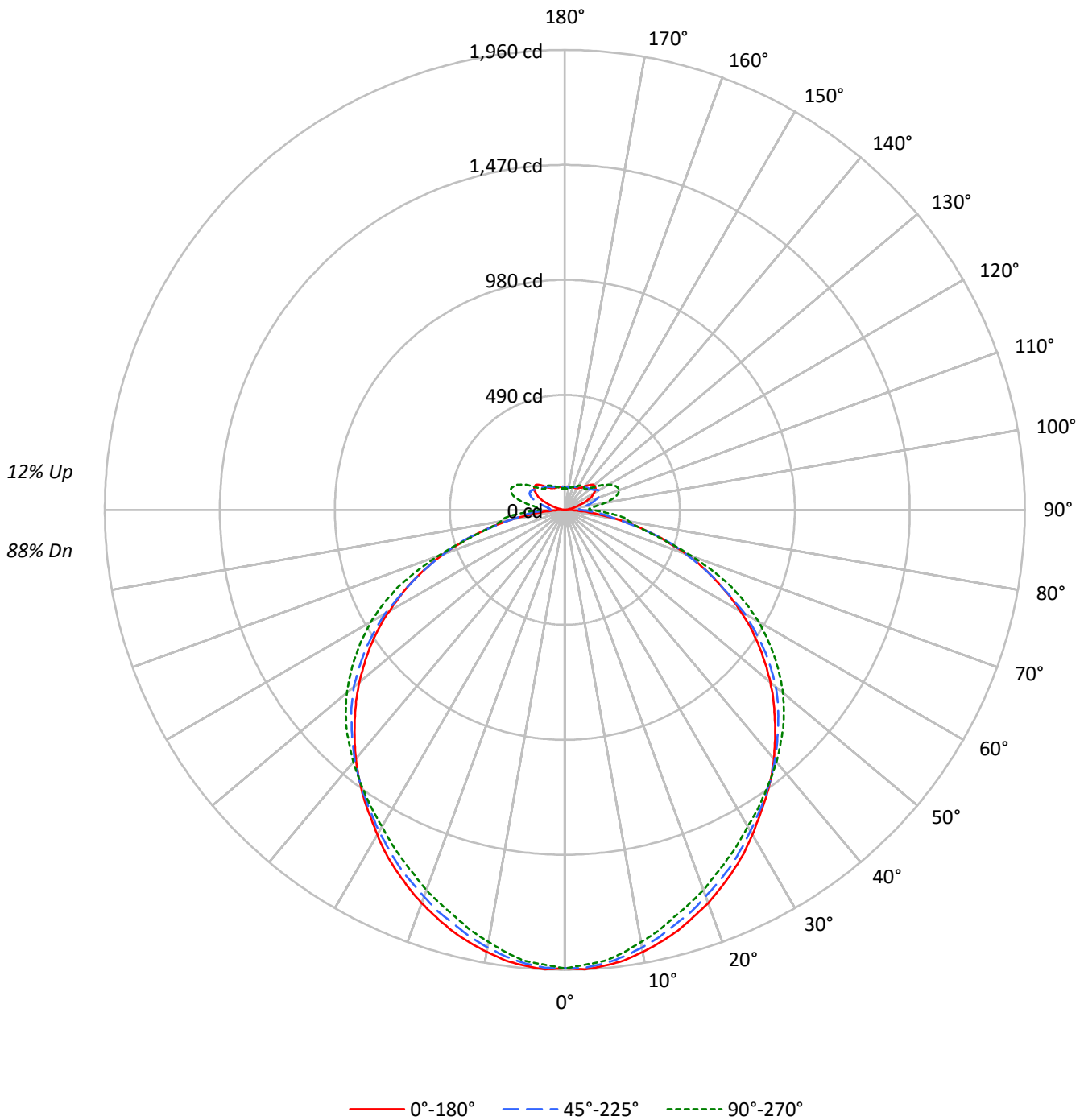
Lumens per Lamp: N/A
Luminaire Lumens: 6389.4 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: Semi-Direct

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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88
1	106	101	96	92	102	97	93	90	91	88	85	85	82	80	79	77	75	73
2	96	87	81	75	92	85	78	73	79	74	69	74	70	66	69	66	63	60
3	87	77	68	62	84	74	67	61	69	63	58	65	60	55	61	57	53	50
4	80	68	59	52	76	66	57	51	61	55	49	58	52	47	54	49	45	43
5	73	60	51	45	70	58	50	44	55	48	42	52	46	41	49	43	39	37
6	67	54	45	39	65	53	44	38	50	42	37	47	40	36	44	39	34	32
7	62	49	40	34	60	48	39	34	45	38	33	42	36	31	40	35	30	28
8	58	45	36	30	56	43	35	30	41	34	29	39	33	28	37	31	27	25
9	54	41	33	27	52	40	32	27	38	31	26	36	30	25	34	29	25	23
10	51	38	30	25	49	37	29	24	35	28	24	33	27	23	31	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7760	7760	7760
5°	7724	7490	7402
10°	7615	7163	6984
15°	7483	6826	6588
20°	7336	6522	6253
25°	7182	6243	5934
30°	7017	5959	5660
35°	6878	5712	5449
40°	6747	5486	5261
45°	6602	5248	5079
50°	6468	5004	4858
55°	6300	4669	4574
60°	6054	4250	4236
65°	5734	3698	3745
70°	5254	3130	2949
75°	4554	2418	2097
80°	3490	1600	1762
85°	1931	1257	1489



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.5	2.9
10°-20°	515.0	8.1
20°-30°	769.4	12.0
30°-40°	931.5	14.6
40°-50°	992.9	15.5
50°-60°	929.4	14.5
60°-70°	723.4	11.3
70°-80°	402.8	6.3
80°-90°	155.5	2.4
90°-100°	75.4	1.2
100°-110°	134.6	2.1
110°-120°	165.6	2.6
120°-130°	142.9	2.2
130°-140°	103.9	1.6
140°-150°	75.6	1.2
150°-160°	50.3	0.8
160°-170°	28.4	0.4
170°-180°	9.2	0.1
0°-30°	1467.9	23.0
0°-40°	2399.3	37.6
0°-60°	4321.7	67.6
0°-90°	5603.5	87.7
90°-120°	375.6	5.9
90°-150°	698.0	10.9
90°-180°	786.0	12.3
0°-180°	6389.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1954	1954	1954	1954	1954	
5°	1950	1937	1940	1934	1930	185
15°	1857	1837	1827	1808	1798	524
25°	1698	1684	1675	1648	1641	782
35°	1495	1492	1488	1482	1482	936
45°	1266	1266	1286	1306	1316	977
55°	1010	1010	1037	1066	1090	902
65°	711	708	711	768	787	702
75°	382	372	379	372	369	402
85°	80	93	146	186	203	94
90°	0	30	60	86	103	5
95°	7	36	66	96	120	8
105°	46	73	120	189	226	51
115°	120	120	166	213	239	115
125°	160	150	150	169	179	141
135°	150	136	133	126	126	116
145°	116	116	120	126	126	73
155°	103	103	110	113	110	48
165°	100	100	100	100	100	29
175°	100	96	96	96	90	9
180°	96	96	96	96	96	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1953.6	1953.6	1953.6	1953.6	1953.6
2.5°	1960.3	1947.0	1953.6	1950.3	1940.4
5°	1950.3	1937.0	1940.4	1933.7	1930.4
7.5°	1937.0	1920.4	1920.4	1910.5	1903.8
10°	1913.8	1897.2	1893.8	1877.2	1870.6
12.5°	1887.2	1870.6	1863.9	1844.0	1837.4
15°	1857.3	1837.4	1827.4	1807.5	1797.5
17.5°	1820.7	1804.1	1794.2	1770.9	1760.9
20°	1784.2	1767.6	1754.3	1731.0	1724.4
22.5°	1741.0	1724.4	1714.4	1687.8	1681.2
25°	1697.8	1684.5	1674.6	1648.0	1641.3
27.5°	1651.3	1638.0	1628.0	1608.1	1601.5
30°	1598.1	1591.5	1581.5	1561.6	1558.3
32.5°	1545.0	1541.7	1535.0	1521.7	1521.7
35°	1495.1	1491.8	1488.5	1481.8	1481.8
37.5°	1442.0	1438.7	1442.0	1438.7	1442.0
40°	1385.5	1382.2	1392.1	1395.5	1402.1
42.5°	1325.7	1325.7	1339.0	1352.3	1358.9
45°	1265.9	1265.9	1285.8	1305.8	1315.7
47.5°	1206.1	1206.1	1232.7	1252.6	1265.9
50°	1142.9	1142.9	1172.9	1196.1	1212.7
52.5°	1076.5	1076.5	1106.4	1136.3	1152.9
55°	1010.0	1010.0	1036.6	1066.5	1089.8
57.5°	940.3	940.3	960.2	1000.1	1023.3
60°	863.9	867.2	883.8	927.0	953.6
62.5°	787.4	787.4	790.8	850.6	873.8
65°	711.0	707.7	711.0	767.5	787.4
67.5°	631.3	624.6	628.0	684.4	684.4
70°	548.2	538.2	548.2	578.1	571.5
72.5°	461.8	451.9	471.8	468.5	461.8
75°	382.1	372.1	378.8	372.1	368.8
77.5°	299.0	292.4	289.1	292.4	302.3
80°	219.3	222.6	219.3	255.8	275.8
82.5°	142.9	149.5	176.1	232.6	255.8
85°	79.7	93.0	146.2	186.1	202.7
87.5°	29.9	59.8	96.4	129.6	146.2
90°	0.0	29.9	59.8	86.4	103.0
92.5°	3.3	29.9	63.1	86.4	103.0
95°	6.6	36.5	66.5	96.4	119.6
97.5°	10.0	43.2	73.1	116.3	142.9
100°	19.9	49.8	86.4	142.9	176.1
102.5°	33.2	59.8	103.0	169.4	202.7
105°	46.5	73.1	119.6	189.4	225.9
107.5°	63.1	83.1	136.2	202.7	239.2
110°	83.1	96.4	149.5	209.3	245.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	99.7	106.3	159.5	212.6	245.9
115°	119.6	119.6	166.1	212.6	239.2
117.5°	132.9	129.6	166.1	209.3	232.6
120°	142.9	139.5	166.1	202.7	216.0
122.5°	152.8	146.2	159.5	186.1	199.4
125°	159.5	149.5	149.5	169.4	179.4
127.5°	162.8	149.5	142.9	152.8	159.5
130°	162.8	149.5	136.2	136.2	146.2
132.5°	159.5	142.9	136.2	126.3	132.9
135°	149.5	136.2	132.9	126.3	126.3
137.5°	139.5	129.6	129.6	126.3	122.9
140°	129.6	126.3	126.3	126.3	126.3
142.5°	119.6	119.6	122.9	126.3	126.3
145°	116.3	116.3	119.6	126.3	126.3
147.5°	109.6	109.6	116.3	122.9	122.9
150°	106.3	109.6	113.0	119.6	119.6
152.5°	106.3	106.3	109.6	116.3	113.0
155°	103.0	103.0	109.6	113.0	109.6
157.5°	103.0	103.0	106.3	109.6	109.6
160°	103.0	99.7	103.0	106.3	103.0
162.5°	103.0	99.7	103.0	103.0	103.0
165°	99.7	99.7	99.7	99.7	99.7
167.5°	99.7	99.7	96.4	99.7	96.4
170°	99.7	96.4	96.4	96.4	93.0
172.5°	99.7	96.4	96.4	96.4	93.0
175°	99.7	96.4	96.4	96.4	89.7
177.5°	96.4	96.4	96.4	96.4	89.7
180°	96.4	96.4	96.4	96.4	96.4

(END OF REPORT)