

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: P534555

Luminaire Tested: **S921DIP-W535-XX4XX-UDD-W-PC**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35513)
Test Lab: INNOVATION CENTER
Issue Date: 6/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S921DIP-W535-XX4XX-UDD-W-PC
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE CURVILINEAR HOUSING WITH PERFORATED UPLIGHT COVER
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

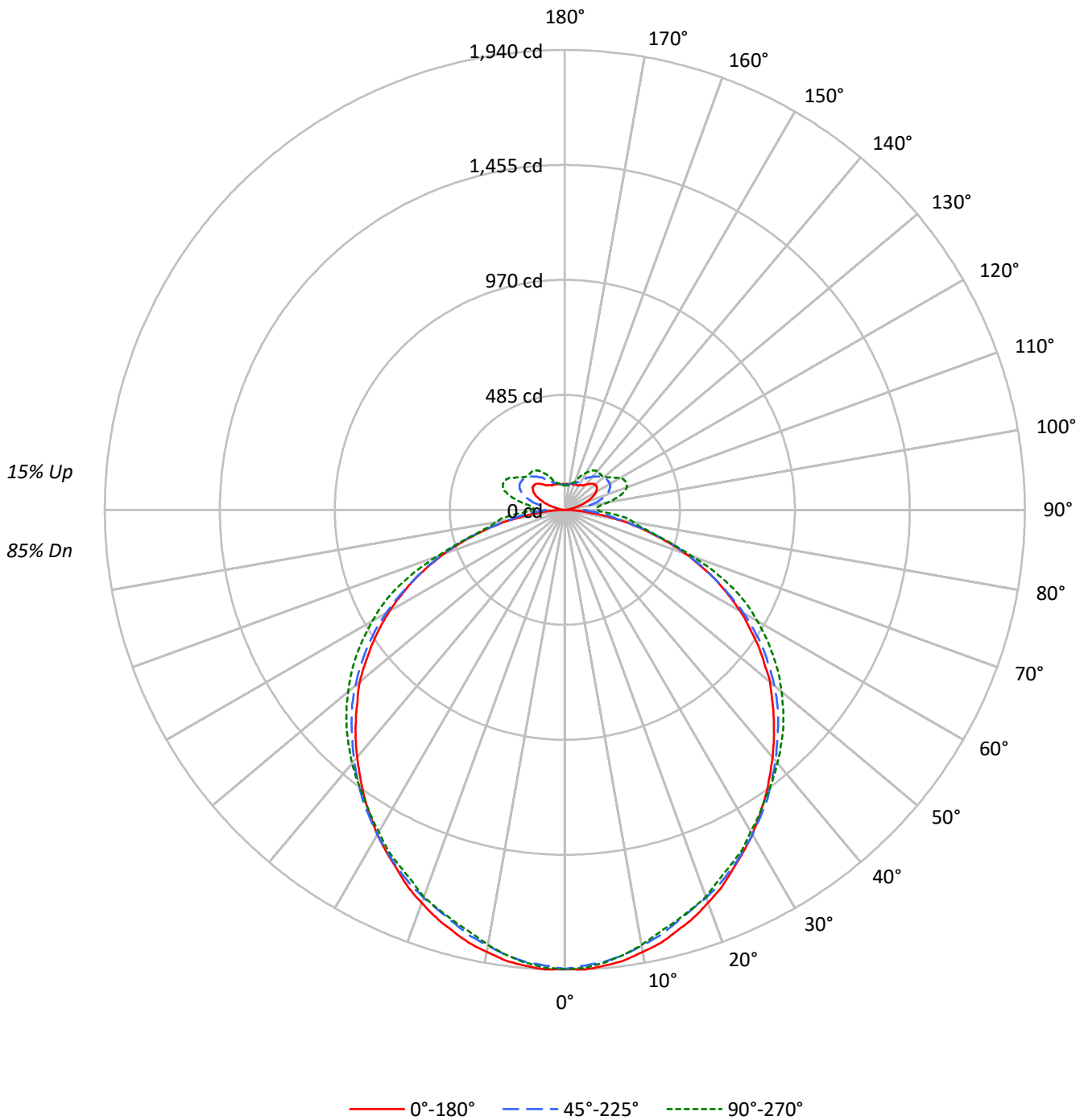
Lumens per Lamp: N/A
Luminaire Lumens: 6586.0 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: Semi-Direct

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	50	30	10	0	
RCR																						
0	115	115	115	115	111	111	111	111	103	103	103	95	95	95	88	88	88	85				
1	105	100	96	92	101	96	92	89	89	86	83	83	80	78	77	75	73	70				
2	95	87	80	74	91	84	77	72	78	73	68	72	68	64	67	64	61	58				
3	87	76	68	61	83	73	66	60	68	62	57	63	58	54	59	55	51	48				
4	79	67	58	52	76	65	57	51	60	54	48	56	51	46	53	48	44	41				
5	73	60	51	44	69	58	50	43	54	47	42	50	44	40	47	42	38	35				
6	67	54	45	39	64	52	44	38	49	42	36	46	39	35	43	37	33	31				
7	62	49	40	34	59	47	39	33	44	37	32	41	35	31	39	34	30	27				
8	58	44	36	30	55	43	35	30	40	33	28	38	32	27	36	30	26	24				
9	54	41	32	27	52	39	32	27	37	30	26	35	29	25	33	28	24	22				
10	50	37	30	24	48	36	29	24	34	28	23	32	26	22	31	25	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7694	7694	7694
5°	7645	7387	7351
10°	7536	7063	6959
15°	7402	6739	6588
20°	7254	6472	6301
25°	7084	6218	5982
30°	6944	5959	5696
35°	6787	5712	5437
40°	6634	5447	5236
45°	6498	5193	5028
50°	6393	4918	4779
55°	6197	4594	4504
60°	5984	4186	4162
65°	5681	3664	3729
70°	5190	3111	2949
75°	4435	2439	2173
80°	3384	1673	1868
85°	1771	1257	1489



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.0	2.8
10°-20°	512.4	7.8
20°-30°	769.3	11.7
30°-40°	929.9	14.1
40°-50°	985.4	15.0
50°-60°	918.9	14.0
60°-70°	717.5	10.9
70°-80°	405.5	6.2
80°-90°	161.4	2.5
90°-100°	94.8	1.4
100°-110°	162.0	2.5
110°-120°	206.4	3.1
120°-130°	187.1	2.8
130°-140°	145.4	2.2
140°-150°	103.0	1.6
150°-160°	62.0	0.9
160°-170°	32.8	0.5
170°-180°	10.3	0.2
0°-30°	1463.7	22.2
0°-40°	2393.6	36.3
0°-60°	4298.0	65.3
0°-90°	5582.3	84.8
90°-120°	463.2	7.0
90°-150°	898.7	13.6
90°-180°	1004.0	15.2
0°-180°	6586.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1937	1937	1937	1937	1937	
5°	1930	1930	1914	1920	1917	183
15°	1837	1834	1804	1804	1798	518
25°	1674	1678	1668	1661	1655	773
35°	1475	1492	1488	1485	1478	923
45°	1246	1269	1272	1296	1302	962
55°	993	1010	1020	1053	1073	888
65°	704	701	704	761	784	693
75°	372	366	382	379	382	395
85°	73	96	146	183	203	89
90°	3	40	80	120	140	5
95°	10	50	86	120	140	13
105°	60	103	150	213	246	64
115°	130	169	209	259	282	126
125°	166	186	219	229	239	146
135°	156	156	199	209	213	120
145°	126	133	166	193	203	80
155°	116	120	130	146	156	54
165°	113	113	116	116	116	32
175°	110	110	106	106	103	10
180°	106	106	106	106	106	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1937.0	1937.0	1937.0	1937.0	1937.0
2.5°	1940.3	1940.3	1923.7	1933.7	1933.7
5°	1930.4	1930.4	1913.8	1920.4	1917.1
7.5°	1917.1	1913.8	1893.8	1897.2	1893.8
10°	1893.8	1890.5	1867.3	1870.6	1863.9
12.5°	1870.6	1863.9	1840.7	1834.0	1827.4
15°	1837.3	1834.0	1804.1	1804.1	1797.5
17.5°	1804.1	1797.5	1770.9	1774.2	1767.6
20°	1764.3	1760.9	1741.0	1744.3	1737.7
22.5°	1724.4	1721.1	1707.8	1704.4	1691.2
25°	1674.5	1677.9	1667.9	1661.3	1654.6
27.5°	1628.0	1631.4	1624.7	1621.4	1618.1
30°	1581.5	1588.2	1581.5	1574.9	1568.2
32.5°	1528.4	1538.3	1535.0	1528.4	1525.0
35°	1475.2	1491.8	1488.5	1485.2	1478.5
37.5°	1418.7	1442.0	1435.3	1438.6	1438.6
40°	1362.2	1385.5	1382.2	1392.1	1395.5
42.5°	1305.7	1325.7	1325.7	1345.6	1348.9
45°	1245.9	1269.2	1272.5	1295.8	1302.4
47.5°	1186.1	1206.1	1216.0	1242.6	1249.3
50°	1129.7	1142.9	1152.9	1182.8	1192.8
52.5°	1059.9	1076.5	1086.5	1123.0	1136.3
55°	993.4	1010.0	1020.0	1053.2	1073.2
57.5°	923.7	940.3	946.9	986.8	1006.7
60°	853.9	863.9	870.5	910.4	936.9
62.5°	777.5	784.1	787.4	840.6	867.2
65°	704.4	701.1	704.4	760.9	784.1
67.5°	621.3	621.3	628.0	674.5	684.4
70°	541.6	538.2	544.9	574.8	571.5
72.5°	458.5	448.5	468.5	468.5	468.5
75°	372.1	365.5	382.1	378.8	382.1
77.5°	292.4	292.4	295.7	309.0	322.3
80°	212.6	222.6	229.3	269.1	292.4
82.5°	136.2	152.8	186.1	249.2	265.8
85°	73.1	96.4	146.2	182.7	202.7
87.5°	26.6	63.1	96.4	129.6	146.2
90°	3.3	39.9	79.7	119.6	139.5
92.5°	3.3	43.2	79.7	116.3	132.9
95°	10.0	49.8	86.4	119.6	139.5
97.5°	19.9	59.8	93.0	132.9	156.2
100°	29.9	73.1	106.3	159.5	189.4
102.5°	43.2	86.4	129.6	189.4	219.3
105°	59.8	103.0	149.5	212.6	245.9
107.5°	76.4	122.9	169.4	232.6	265.8
110°	96.4	139.5	186.1	245.9	279.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	<i>113.0</i>	156.2	199.4	252.5	282.4
115°	<i>129.6</i>	169.4	209.3	259.2	282.4
117.5°	<i>142.9</i>	179.4	216.0	259.2	279.1
120°	<i>152.8</i>	186.1	219.3	252.5	269.1
122.5°	<i>159.5</i>	186.1	219.3	242.5	252.5
125°	<i>166.1</i>	186.1	219.3	229.3	239.2
127.5°	<i>166.1</i>	182.7	216.0	219.3	225.9
130°	<i>166.1</i>	176.1	209.3	212.6	216.0
132.5°	<i>162.8</i>	166.1	206.0	209.3	212.6
135°	<i>156.2</i>	156.2	199.4	209.3	212.6
137.5°	<i>146.2</i>	149.5	189.4	212.6	212.6
140°	<i>139.5</i>	142.9	182.7	209.3	212.6
142.5°	<i>129.6</i>	139.5	172.8	202.7	209.3
145°	<i>126.3</i>	132.9	166.1	192.7	202.7
147.5°	<i>122.9</i>	129.6	152.8	182.7	192.7
150°	<i>119.6</i>	126.3	139.5	172.8	179.4
152.5°	<i>116.3</i>	122.9	132.9	162.8	169.4
155°	<i>116.3</i>	119.6	129.6	146.2	156.2
157.5°	<i>116.3</i>	119.6	122.9	132.9	139.5
160°	<i>113.0</i>	116.3	119.6	126.3	126.3
162.5°	<i>113.0</i>	113.0	119.6	119.6	119.6
165°	<i>113.0</i>	113.0	116.3	116.3	116.3
167.5°	<i>113.0</i>	113.0	113.0	113.0	113.0
170°	<i>109.6</i>	109.6	109.6	109.6	109.6
172.5°	<i>109.6</i>	109.6	106.3	106.3	103.0
175°	<i>109.6</i>	109.6	106.3	106.3	103.0
177.5°	<i>109.6</i>	109.6	106.3	106.3	103.0
180°	<i>106.3</i>	106.3	106.3	106.3	106.3

(END OF REPORT)