

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: P534540

Luminaire Tested: **S921DIP-W340-XX4XX-UDD-W-PC**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534540
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-W340-XX4XX-UDD-W-PC
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE CURVILINEAR HOUSING WITH PERFORATED UPLIGHT COVER
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

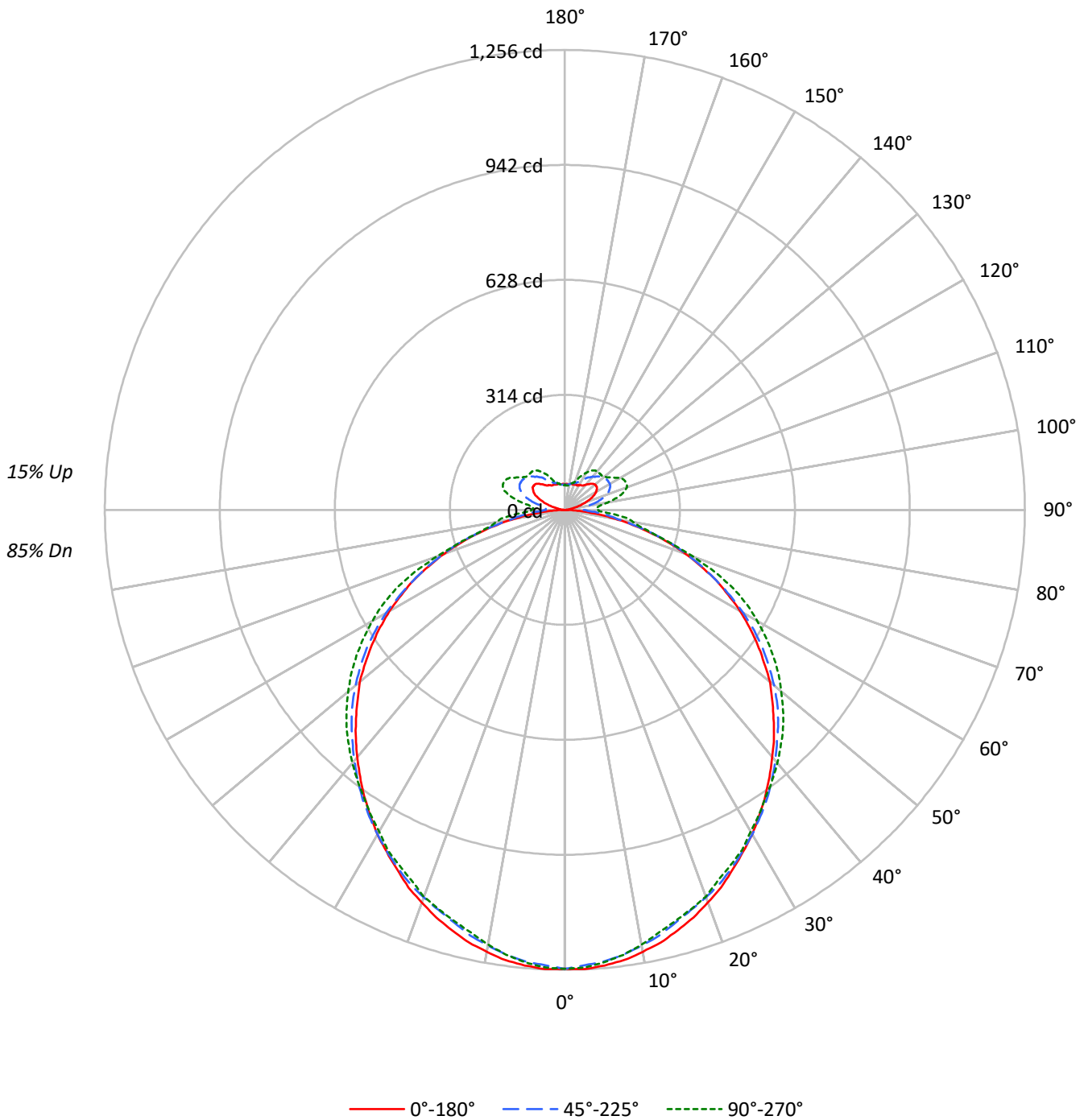
Lumens per Lamp: N/A
Luminaire Lumens: 4261.4 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: Semi-Direct

Input Watts (W): 38.5
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	36				
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°	4978	4978	4978
5°	4947	4780	4757
10°	4876	4570	4503
15°	4790	4361	4263
20°	4694	4188	4077
25°	4584	4024	3871
30°	4493	3856	3685
35°	4391	3696	3518
40°	4292	3524	3388
45°	4204	3361	3253
50°	4136	3182	3092
55°	4010	2973	2914
60°	3872	2709	2693
65°	3676	2371	2413
70°	3358	2013	1908
75°	2870	1578	1406
80°	2190	1082	1209
85°	1146	813	963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	2.8
10°-20°	331.6	7.8
20°-30°	497.8	11.7
30°-40°	601.7	14.1
40°-50°	637.6	15.0
50°-60°	594.6	14.0
60°-70°	464.3	10.9
70°-80°	262.3	6.2
80°-90°	104.4	2.4
90°-100°	61.3	1.4
100°-110°	104.8	2.5
110°-120°	133.5	3.1
120°-130°	121.1	2.8
130°-140°	94.1	2.2
140°-150°	66.6	1.6
150°-160°	40.1	0.9
160°-170°	21.2	0.5
170°-180°	6.6	0.2
0°-30°	947.1	22.2
0°-40°	1548.8	36.3
0°-60°	2781.0	65.3
0°-90°	3612.0	84.8
90°-120°	299.7	7.0
90°-150°	581.4	13.6
90°-180°	649.0	15.2
0°-180°	4261.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1253	1253	1253	1253	1253	
5°	1249	1249	1238	1243	1240	119
15°	1189	1187	1167	1167	1163	335
25°	1084	1086	1079	1075	1071	500
35°	954	965	963	961	957	597
45°	806	821	823	838	843	623
55°	643	654	660	682	694	574
65°	456	454	456	492	507	448
75°	241	236	247	245	247	256
85°	47	62	95	118	131	58
90°	2	26	52	77	90	3
95°	6	32	56	77	90	8
105°	39	67	97	138	159	41
115°	84	110	135	168	183	82
125°	108	120	142	148	155	94
135°	101	101	129	135	138	78
145°	82	86	108	125	131	52
155°	75	77	84	95	101	35
165°	73	73	75	75	75	21
175°	71	71	69	69	67	7
180°	69	69	69	69	69	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1253.4	1253.4	1253.4	1253.4	1253.4
2.5°	1255.5	1255.5	1244.8	1251.2	1251.2
5°	1249.1	1249.1	1238.3	1242.6	1240.5
7.5°	1240.5	1238.3	1225.4	1227.6	1225.4
10°	1225.4	1223.3	1208.2	1210.4	1206.1
12.5°	1210.4	1206.1	1191.0	1186.7	1182.4
15°	1188.9	1186.7	1167.4	1167.4	1163.1
17.5°	1167.4	1163.1	1145.9	1148.0	1143.7
20°	1141.6	1139.4	1126.5	1128.7	1124.4
22.5°	1115.8	1113.6	1105.0	1102.9	1094.3
25°	1083.5	1085.7	1079.2	1074.9	1070.6
27.5°	1053.4	1055.6	1051.3	1049.1	1047.0
30°	1023.3	1027.6	1023.3	1019.0	1014.7
32.5°	988.9	995.4	993.2	988.9	986.8
35°	954.5	965.3	963.1	961.0	956.7
37.5°	918.0	933.0	928.7	930.9	930.9
40°	881.4	896.5	894.3	900.8	902.9
42.5°	844.9	857.8	857.8	870.7	872.8
45°	806.2	821.2	823.4	838.4	842.7
47.5°	767.5	780.4	786.8	804.0	808.3
50°	730.9	739.5	746.0	765.3	771.8
52.5°	685.8	696.5	703.0	726.6	735.2
55°	642.8	653.6	660.0	681.5	694.4
57.5°	597.7	608.4	612.7	638.5	651.4
60°	552.5	559.0	563.3	589.1	606.3
62.5°	503.1	507.4	509.5	543.9	561.1
65°	455.8	453.6	455.8	492.3	507.4
67.5°	402.0	402.0	406.3	436.4	442.9
70°	350.4	348.3	352.6	371.9	369.8
72.5°	296.7	290.2	303.1	303.1	303.1
75°	240.8	236.5	247.2	245.1	247.2
77.5°	189.2	189.2	191.3	199.9	208.5
80°	137.6	144.0	148.3	174.1	189.2
82.5°	88.1	98.9	120.4	161.2	172.0
85°	47.3	62.3	94.6	118.2	131.1
87.5°	17.2	40.8	62.3	83.8	94.6
90°	2.1	25.8	51.6	77.4	90.3
92.5°	2.1	27.9	51.6	75.2	86.0
95°	6.4	32.2	55.9	77.4	90.3
97.5°	12.9	38.7	60.2	86.0	101.0
100°	19.3	47.3	68.8	103.2	122.5
102.5°	27.9	55.9	83.8	122.5	141.9
105°	38.7	66.6	96.7	137.6	159.1
107.5°	49.4	79.5	109.6	150.5	172.0
110°	62.3	90.3	120.4	159.1	180.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	73.1	101.0	129.0	163.4	182.7
115°	83.8	109.6	135.4	167.7	182.7
117.5°	92.4	116.1	139.7	167.7	180.6
120°	98.9	120.4	141.9	163.4	174.1
122.5°	103.2	120.4	141.9	156.9	163.4
125°	107.5	120.4	141.9	148.3	154.8
127.5°	107.5	118.2	139.7	141.9	146.2
130°	107.5	113.9	135.4	137.6	139.7
132.5°	105.3	107.5	133.3	135.4	137.6
135°	101.0	101.0	129.0	135.4	137.6
137.5°	94.6	96.7	122.5	137.6	137.6
140°	90.3	92.4	118.2	135.4	137.6
142.5°	83.8	90.3	111.8	131.1	135.4
145°	81.7	86.0	107.5	124.7	131.1
147.5°	79.5	83.8	98.9	118.2	124.7
150°	77.4	81.7	90.3	111.8	116.1
152.5°	75.2	79.5	86.0	105.3	109.6
155°	75.2	77.4	83.8	94.6	101.0
157.5°	75.2	77.4	79.5	86.0	90.3
160°	73.1	75.2	77.4	81.7	81.7
162.5°	73.1	73.1	77.4	77.4	77.4
165°	73.1	73.1	75.2	75.2	75.2
167.5°	73.1	73.1	73.1	73.1	73.1
170°	70.9	70.9	70.9	70.9	70.9
172.5°	70.9	70.9	68.8	68.8	66.6
175°	70.9	70.9	68.8	68.8	66.6
177.5°	70.9	70.9	68.8	68.8	66.6
180°	68.8	68.8	68.8	68.8	68.8

(END OF REPORT)