

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: P534535

Luminaire Tested: **S921DIP-W330-XX4XX-UDD-W-SC**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534535
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35514)
Test Lab: INNOVATION CENTER
Issue Date: 6/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S921DIP-W330-XX4XX-UDD-W-SC
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE CURVILINEAR HOUSING WITH SOLID UPLIGHT COVER
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

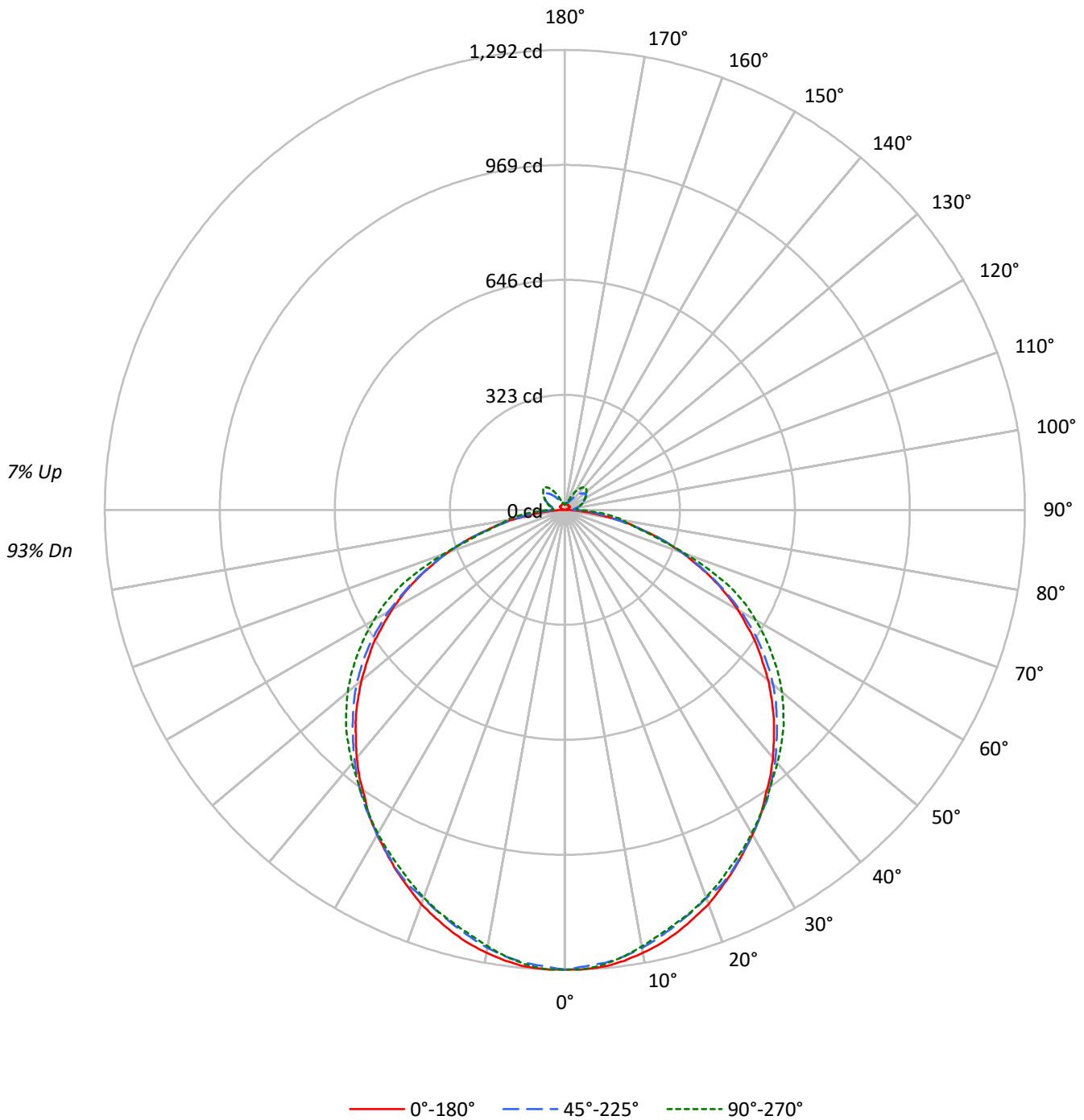
Lumens per Lamp: N/A
Luminaire Lumens: 3917.9 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: Direct

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	96	96	96	93	
1	107	102	98	94	104	99	95	92	94	91	88	89	86	84	84	82	80	84	82	80	78	
2	97	89	82	76	94	86	80	75	82	77	72	78	73	70	74	70	67	74	70	67	64	
3	89	78	70	63	85	76	68	62	72	66	60	68	63	58	65	60	57	65	60	57	54	
4	81	69	60	53	78	67	59	53	64	57	51	61	55	50	58	53	48	58	53	48	46	
5	74	61	52	46	72	60	52	45	57	50	44	54	48	43	52	46	42	52	46	42	40	
6	69	55	46	40	66	54	46	39	51	44	39	49	43	38	47	41	37	47	41	37	35	
7	64	50	41	35	61	49	41	35	47	39	34	45	38	33	43	37	33	43	37	33	31	
8	59	46	37	31	57	45	37	31	43	36	30	41	35	30	39	34	29	39	34	29	27	
9	55	42	34	28	53	41	33	28	39	32	27	38	31	27	36	31	26	36	31	26	24	
10	52	39	31	25	50	38	30	25	36	29	25	35	29	24	34	28	24	34	28	24	22	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5131	5131	5131
5°	5100	4932	4915
10°	5028	4726	4650
15°	4945	4509	4409
20°	4847	4315	4202
25°	4732	4163	3993
30°	4628	3971	3814
35°	4515	3805	3631
40°	4426	3621	3486
45°	4330	3438	3353
50°	4220	3258	3189
55°	4098	3032	2986
60°	3927	2752	2748
65°	3690	2400	2435
70°	3341	1990	1861
75°	2810	1492	1284
80°	2149	971	1056
85°	1073	659	741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.5	3.1
10°-20°	342.4	8.7
20°-30°	513.6	13.1
30°-40°	619.6	15.8
40°-50°	654.3	16.7
50°-60°	606.8	15.5
60°-70°	467.0	11.9
70°-80°	250.8	6.4
80°-90°	84.5	2.2
90°-100°	27.5	0.7
100°-110°	39.7	1.0
110°-120°	49.8	1.3
120°-130°	50.6	1.3
130°-140°	42.4	1.1
140°-150°	27.3	0.7
150°-160°	12.8	0.3
160°-170°	5.5	0.1
170°-180°	1.7	0.0
0°-30°	977.6	25.0
0°-40°	1597.2	40.8
0°-60°	2858.3	73.0
0°-90°	3660.7	93.4
90°-120°	116.9	3.0
90°-150°	237.2	6.1
90°-180°	257.0	6.6
0°-180°	3917.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1292	1292	1292	1292	1292	
5°	1288	1288	1278	1284	1282	122
15°	1227	1225	1207	1205	1203	346
25°	1118	1120	1116	1110	1104	516
35°	982	994	992	990	988	616
45°	830	842	842	860	869	640
55°	657	665	673	699	711	585
65°	458	458	462	496	512	451
75°	236	234	234	226	226	253
85°	44	56	77	91	101	56
90°	2	16	26	34	36	3
95°	2	20	26	32	34	2
105°	8	38	42	44	44	8
115°	12	46	58	60	60	12
125°	16	36	73	75	75	14
135°	16	24	64	81	85	12
145°	16	20	42	66	73	10
155°	18	20	24	34	40	8
165°	18	18	20	20	20	5
175°	18	18	16	16	14	2
180°	16	16	16	16	16	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1291.8	1291.8	1291.8	1291.8	1291.8
2.5°	1291.8	1291.8	1283.7	1291.8	1291.8
5°	1287.8	1287.8	1277.7	1283.7	1281.7
7.5°	1277.7	1275.7	1265.6	1267.6	1265.6
10°	1263.6	1263.6	1249.5	1249.5	1245.5
12.5°	1247.5	1245.5	1229.3	1227.3	1223.3
15°	1227.3	1225.3	1207.2	1205.1	1203.1
17.5°	1203.1	1199.1	1185.0	1187.0	1183.0
20°	1179.0	1174.9	1160.8	1164.8	1158.8
22.5°	1148.7	1146.7	1142.7	1138.6	1132.6
25°	1118.5	1120.5	1116.5	1110.4	1104.4
27.5°	1086.2	1088.3	1084.2	1082.2	1078.2
30°	1054.0	1058.0	1054.0	1054.0	1050.0
32.5°	1021.8	1025.8	1021.8	1019.7	1019.7
35°	981.5	993.5	991.5	989.5	987.5
37.5°	947.2	959.3	955.3	957.3	957.3
40°	908.9	921.0	919.0	927.0	929.1
42.5°	868.6	880.7	880.7	894.8	898.8
45°	830.3	842.4	842.4	860.5	868.6
47.5°	788.0	798.1	804.1	824.3	832.3
50°	745.7	753.7	763.8	786.0	796.0
52.5°	699.3	709.4	719.5	745.7	755.7
55°	657.0	665.0	673.1	699.3	711.4
57.5°	606.6	616.7	622.7	648.9	667.1
60°	560.3	566.3	572.3	600.6	618.7
62.5°	509.9	513.9	515.9	550.2	570.3
65°	457.5	457.5	461.5	495.8	511.9
67.5°	401.0	403.1	405.1	433.3	437.3
70°	348.6	344.6	348.6	364.8	360.7
72.5°	294.2	288.2	296.2	290.2	282.1
75°	235.8	233.8	233.8	225.7	225.7
77.5°	187.4	183.4	179.4	179.4	183.4
80°	135.0	137.0	133.0	151.1	165.3
82.5°	86.7	90.7	104.8	131.0	135.0
85°	44.3	56.4	76.6	90.7	100.8
87.5°	16.1	34.3	44.3	56.4	62.5
90°	2.0	16.1	26.2	34.3	36.3
92.5°	2.0	18.1	24.2	30.2	32.2
95°	2.0	20.2	26.2	32.2	34.3
97.5°	4.0	24.2	30.2	34.3	36.3
100°	4.0	28.2	34.3	36.3	38.3
102.5°	6.0	32.2	38.3	40.3	40.3
105°	8.1	38.3	42.3	44.3	44.3
107.5°	8.1	42.3	46.4	48.4	48.4
110°	10.1	46.4	50.4	52.4	52.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	12.1	48.4	54.4	56.4	56.4
115°	12.1	46.4	58.4	60.5	60.5
117.5°	14.1	46.4	62.5	62.5	62.5
120°	14.1	44.3	66.5	66.5	66.5
122.5°	16.1	40.3	68.5	70.5	70.5
125°	16.1	36.3	72.6	74.6	74.6
127.5°	16.1	34.3	72.6	76.6	76.6
130°	16.1	30.2	70.5	78.6	78.6
132.5°	16.1	26.2	68.5	82.6	82.6
135°	16.1	24.2	64.5	80.6	84.6
137.5°	16.1	22.2	60.5	80.6	84.6
140°	16.1	22.2	54.4	76.6	82.6
142.5°	16.1	22.2	48.4	72.6	78.6
145°	16.1	20.2	42.3	66.5	72.6
147.5°	16.1	20.2	36.3	58.4	64.5
150°	16.1	20.2	30.2	50.4	58.4
152.5°	16.1	20.2	26.2	42.3	50.4
155°	18.1	20.2	24.2	34.3	40.3
157.5°	18.1	20.2	22.2	28.2	30.2
160°	18.1	18.1	20.2	24.2	24.2
162.5°	18.1	18.1	20.2	20.2	20.2
165°	18.1	18.1	20.2	20.2	20.2
167.5°	18.1	18.1	20.2	20.2	18.1
170°	18.1	18.1	18.1	18.1	18.1
172.5°	18.1	18.1	18.1	18.1	16.1
175°	18.1	18.1	16.1	16.1	14.1
177.5°	18.1	18.1	18.1	16.1	14.1
180°	16.1	16.1	16.1	16.1	16.1

(END OF REPORT)