

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: P534549

Luminaire Tested: **S921DIP-W440-XX4XX-UDD-W-PC**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534549
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-W440-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

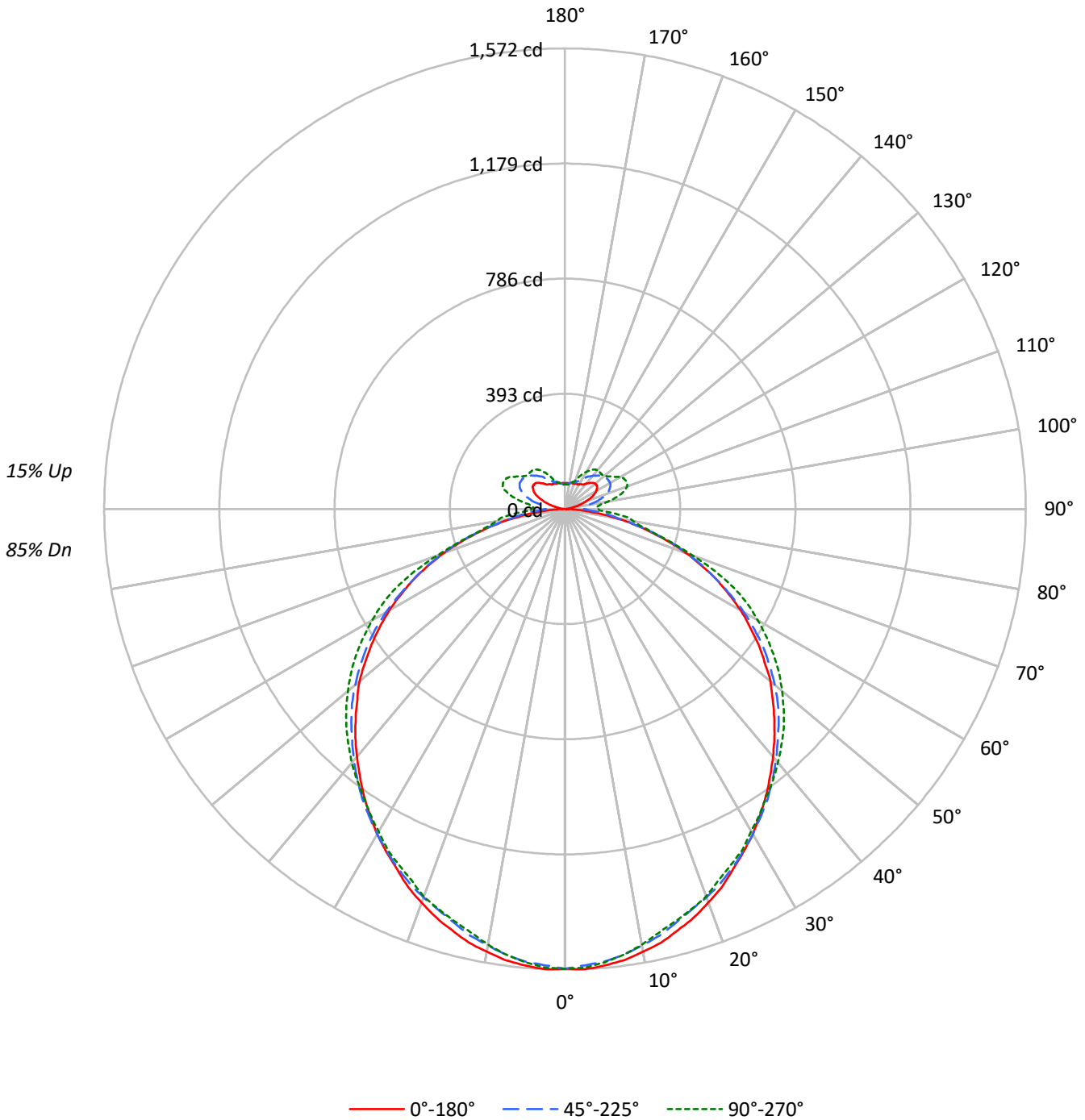
Lumens per Lamp: N/A
Luminaire Lumens: 5336.8 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: Semi-Direct

Input Watts (W): 50.7
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	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°	6234	6234	6234
5°	6195	5986	5956
10°	6106	5723	5639
15°	5998	5461	5338
20°	5878	5245	5106
25°	5740	5039	4847
30°	5627	4828	4616
35°	5499	4629	4406
40°	5375	4414	4243
45°	5265	4208	4074
50°	5181	3985	3872
55°	5022	3723	3650
60°	4849	3392	3373
65°	4604	2969	3022
70°	4205	2521	2390
75°	3593	1976	1761
80°	2742	1356	1513
85°	1434	1019	1207



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.5	2.8
10°-20°	415.2	7.8
20°-30°	623.4	11.7
30°-40°	753.5	14.1
40°-50°	798.5	15.0
50°-60°	744.6	14.0
60°-70°	581.4	10.9
70°-80°	328.6	6.2
80°-90°	130.8	2.5
90°-100°	76.8	1.4
100°-110°	131.3	2.5
110°-120°	167.2	3.1
120°-130°	151.6	2.8
130°-140°	117.8	2.2
140°-150°	83.4	1.6
150°-160°	50.3	0.9
160°-170°	26.5	0.5
170°-180°	8.3	0.2
0°-30°	1186.1	22.2
0°-40°	1939.6	36.3
0°-60°	3482.7	65.3
0°-90°	4523.4	84.8
90°-120°	375.3	7.0
90°-150°	728.2	13.6
90°-180°	813.0	15.2
0°-180°	5336.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1570	1570	1570	1570	1570	
5°	1564	1564	1551	1556	1553	148
15°	1489	1486	1462	1462	1456	420
25°	1357	1360	1352	1346	1341	626
35°	1195	1209	1206	1204	1198	748
45°	1010	1028	1031	1050	1055	780
55°	805	818	826	854	870	719
65°	571	568	571	616	635	562
75°	302	296	310	307	310	320
85°	59	78	118	148	164	72
90°	3	32	65	97	113	4
95°	8	40	70	97	113	10
105°	48	84	121	172	199	52
115°	105	137	170	210	229	102
125°	135	151	178	186	194	118
135°	126	126	162	170	172	97
145°	102	108	135	156	164	65
155°	94	97	105	118	126	44
165°	92	92	94	94	94	26
175°	89	89	86	86	84	8
180°	86	86	86	86	86	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1569.6	1569.6	1569.6	1569.6	1569.6
2.5°	1572.3	1572.3	1558.8	1566.9	1566.9
5°	1564.2	1564.2	1550.8	1556.1	1553.4
7.5°	1553.4	1550.8	1534.6	1537.3	1534.6
10°	1534.6	1531.9	1513.1	1515.8	1510.4
12.5°	1515.8	1510.4	1491.5	1486.1	1480.8
15°	1488.8	1486.1	1461.9	1461.9	1456.5
17.5°	1461.9	1456.5	1435.0	1437.7	1432.3
20°	1429.6	1426.9	1410.8	1413.4	1408.1
22.5°	1397.3	1394.6	1383.8	1381.1	1370.4
25°	1356.9	1359.6	1351.5	1346.1	1340.8
27.5°	1319.2	1321.9	1316.5	1313.8	1311.1
30°	1281.5	1286.9	1281.5	1276.1	1270.8
32.5°	1238.5	1246.5	1243.8	1238.5	1235.8
35°	1195.4	1208.8	1206.1	1203.5	1198.1
37.5°	1149.6	1168.5	1163.1	1165.8	1165.8
40°	1103.8	1122.7	1120.0	1128.1	1130.8
42.5°	1058.1	1074.2	1074.2	1090.4	1093.1
45°	1009.6	1028.5	1031.1	1050.0	1055.4
47.5°	961.1	977.3	985.4	1006.9	1012.3
50°	915.4	926.1	934.2	958.5	966.5
52.5°	858.8	872.3	880.4	910.0	920.8
55°	805.0	818.5	826.5	853.5	869.6
57.5°	748.5	761.9	767.3	799.6	815.8
60°	691.9	700.0	705.4	737.7	759.2
62.5°	630.0	635.4	638.1	681.1	702.7
65°	570.8	568.1	570.8	616.5	635.4
67.5°	503.5	503.5	508.8	546.5	554.6
70°	438.8	436.2	441.5	465.8	463.1
72.5°	371.5	363.5	379.6	379.6	379.6
75°	301.5	296.2	309.6	306.9	309.6
77.5°	236.9	236.9	239.6	250.4	261.2
80°	172.3	180.4	185.8	218.1	236.9
82.5°	110.4	123.8	150.8	201.9	215.4
85°	59.2	78.1	118.5	148.1	164.2
87.5°	21.5	51.2	78.1	105.0	118.5
90°	2.7	32.3	64.6	96.9	113.1
92.5°	2.7	35.0	64.6	94.2	107.7
95°	8.1	40.4	70.0	96.9	113.1
97.5°	16.2	48.5	75.4	107.7	126.5
100°	24.2	59.2	86.2	129.2	153.5
102.5°	35.0	70.0	105.0	153.5	177.7
105°	48.5	83.5	121.2	172.3	199.2
107.5°	61.9	99.6	137.3	188.5	215.4
110°	78.1	113.1	150.8	199.2	226.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	91.5	126.5	161.5	204.6	228.8
115°	105.0	137.3	169.6	210.0	228.8
117.5°	115.8	145.4	175.0	210.0	226.2
120°	123.8	150.8	177.7	204.6	218.1
122.5°	129.2	150.8	177.7	196.5	204.6
125°	134.6	150.8	177.7	185.8	193.8
127.5°	134.6	148.1	175.0	177.7	183.1
130°	134.6	142.7	169.6	172.3	175.0
132.5°	131.9	134.6	166.9	169.6	172.3
135°	126.5	126.5	161.5	169.6	172.3
137.5°	118.5	121.2	153.5	172.3	172.3
140°	113.1	115.8	148.1	169.6	172.3
142.5°	105.0	113.1	140.0	164.2	169.6
145°	102.3	107.7	134.6	156.2	164.2
147.5°	99.6	105.0	123.8	148.1	156.2
150°	96.9	102.3	113.1	140.0	145.4
152.5°	94.2	99.6	107.7	131.9	137.3
155°	94.2	96.9	105.0	118.5	126.5
157.5°	94.2	96.9	99.6	107.7	113.1
160°	91.5	94.2	96.9	102.3	102.3
162.5°	91.5	91.5	96.9	96.9	96.9
165°	91.5	91.5	94.2	94.2	94.2
167.5°	91.5	91.5	91.5	91.5	91.5
170°	88.8	88.8	88.8	88.8	88.8
172.5°	88.8	88.8	86.2	86.2	83.5
175°	88.8	88.8	86.2	86.2	83.5
177.5°	88.8	88.8	86.2	86.2	83.5
180°	86.2	86.2	86.2	86.2	86.2

(END OF REPORT)