

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: P534543

Luminaire Tested: **S921DIP-W430-XX4XX-UDD-W-PC**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534543
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-W430-XX4XX-UDD-W-PC
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE CURVILINEAR HOUSING WITH PERFORATED UPLIGHT COVER
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

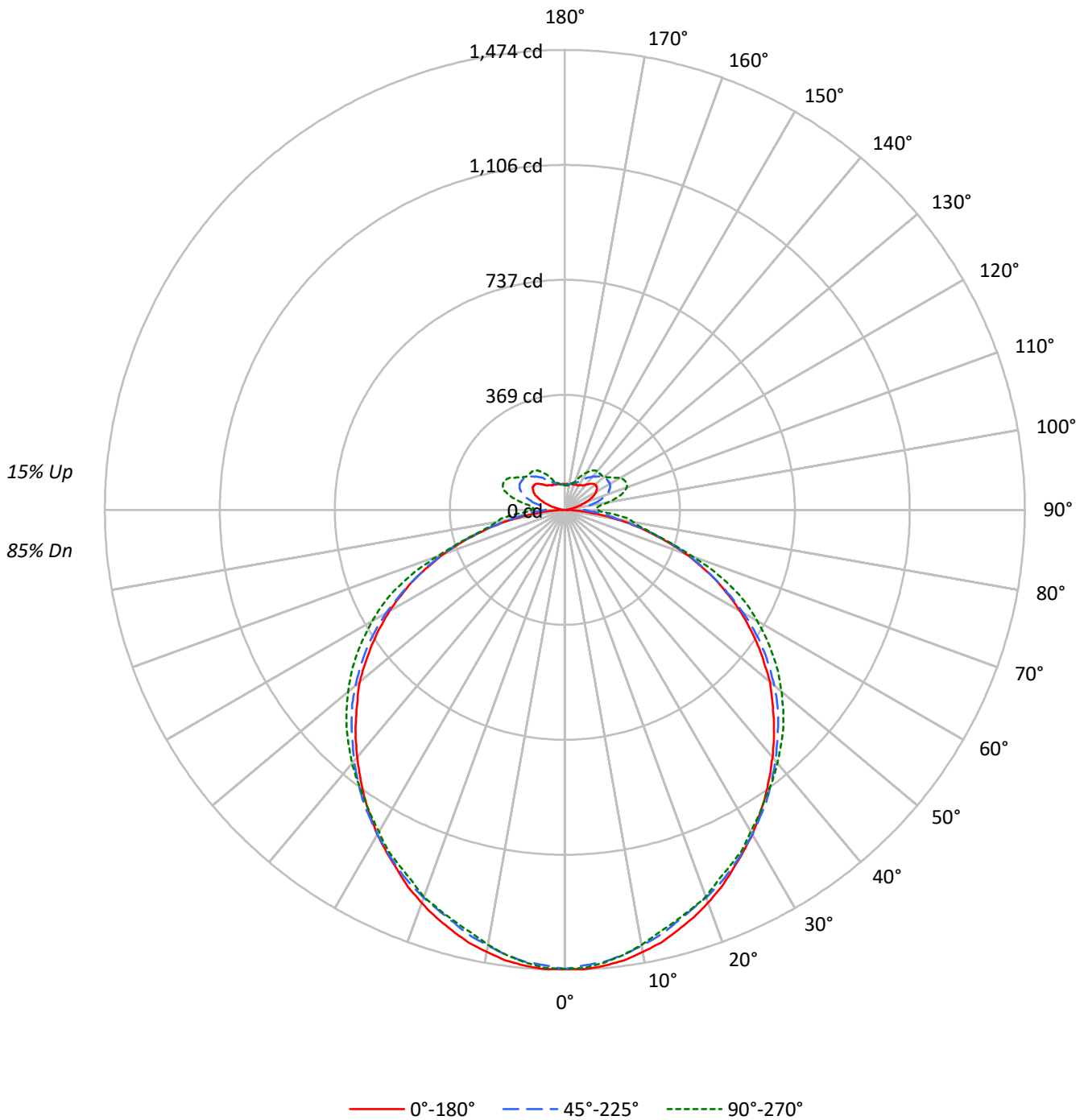
Lumens per Lamp: N/A
Luminaire Lumens: 5002.7 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: Semi-Direct

Input Watts (W): 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°	5844	5844	5844
5°	5807	5611	5584
10°	5724	5365	5286
15°	5623	5119	5004
20°	5510	4917	4786
25°	5381	4723	4544
30°	5275	4526	4327
35°	5155	4339	4130
40°	5039	4137	3977
45°	4936	3945	3819
50°	4856	3736	3630
55°	4707	3490	3421
60°	4546	3180	3162
65°	4315	2783	2833
70°	3943	2363	2240
75°	3369	1852	1650
80°	2570	1271	1419
85°	1345	954	1132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	2.8
10°-20°	389.2	7.8
20°-30°	584.3	11.7
30°-40°	706.3	14.1
40°-50°	748.5	15.0
50°-60°	698.0	14.0
60°-70°	545.0	10.9
70°-80°	308.0	6.2
80°-90°	122.6	2.4
90°-100°	72.0	1.4
100°-110°	123.0	2.5
110°-120°	156.7	3.1
120°-130°	142.1	2.8
130°-140°	110.4	2.2
140°-150°	78.2	1.6
150°-160°	47.1	0.9
160°-170°	24.9	0.5
170°-180°	7.8	0.2
0°-30°	1111.8	22.2
0°-40°	1818.2	36.3
0°-60°	3264.7	65.3
0°-90°	4240.3	84.8
90°-120°	351.8	7.0
90°-150°	682.6	13.6
90°-180°	762.0	15.2
0°-180°	5002.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1471	1471	1471	1471	1471	
5°	1466	1466	1454	1459	1456	139
15°	1396	1393	1370	1370	1365	394
25°	1272	1274	1267	1262	1257	587
35°	1121	1133	1131	1128	1123	701
45°	946	964	967	984	989	731
55°	755	767	775	800	815	674
65°	535	532	535	578	596	526
75°	283	278	290	288	290	300
85°	56	73	111	139	154	68
90°	2	30	61	91	106	4
95°	8	38	66	91	106	10
105°	45	78	114	162	187	49
115°	98	129	159	197	214	96
125°	126	141	167	174	182	111
135°	119	119	151	159	162	91
145°	96	101	126	146	154	61
155°	88	91	98	111	119	41
165°	86	86	88	88	88	24
175°	83	83	81	81	78	8
180°	81	81	81	81	81	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1471.4	1471.4	1471.4	1471.4	1471.4
2.5°	1473.9	1473.9	1461.3	1468.8	1468.8
5°	1466.3	1466.3	1453.7	1458.7	1456.2
7.5°	1456.2	1453.7	1438.6	1441.1	1438.6
10°	1438.6	1436.0	1418.4	1420.9	1415.8
12.5°	1420.9	1415.8	1398.2	1393.1	1388.1
15°	1395.7	1393.1	1370.4	1370.4	1365.4
17.5°	1370.4	1365.4	1345.2	1347.7	1342.7
20°	1340.1	1337.6	1322.5	1325.0	1319.9
22.5°	1309.8	1307.3	1297.2	1294.7	1284.6
25°	1272.0	1274.5	1266.9	1261.9	1256.8
27.5°	1236.7	1239.2	1234.1	1231.6	1229.1
30°	1201.3	1206.4	1201.3	1196.3	1191.2
32.5°	1160.9	1168.5	1166.0	1160.9	1158.4
35°	1120.6	1133.2	1130.7	1128.1	1123.1
37.5°	1077.7	1095.3	1090.3	1092.8	1092.8
40°	1034.8	1052.4	1049.9	1057.5	1060.0
42.5°	991.8	1007.0	1007.0	1022.1	1024.7
45°	946.4	964.1	966.6	984.3	989.3
47.5°	901.0	916.1	923.7	943.9	948.9
50°	858.1	868.2	875.8	898.5	906.0
52.5°	805.1	817.7	825.3	853.0	863.1
55°	754.6	767.2	774.8	800.0	815.2
57.5°	701.6	714.2	719.3	749.6	764.7
60°	648.6	656.2	661.2	691.5	711.7
62.5°	590.6	595.6	598.1	638.5	658.7
65°	535.0	532.5	535.0	577.9	595.6
67.5°	471.9	471.9	477.0	512.3	519.9
70°	411.4	408.9	413.9	436.6	434.1
72.5°	348.3	340.7	355.9	355.9	355.9
75°	282.7	277.6	290.2	287.7	290.2
77.5°	222.1	222.1	224.6	234.7	244.8
80°	161.5	169.1	174.1	204.4	222.1
82.5°	103.5	116.1	141.3	189.3	201.9
85°	55.5	73.2	111.0	138.8	154.0
87.5°	20.2	48.0	73.2	98.4	111.0
90°	2.5	30.3	60.6	90.9	106.0
92.5°	2.5	32.8	60.6	88.3	101.0
95°	7.6	37.9	65.6	90.9	106.0
97.5°	15.1	45.4	70.7	101.0	118.6
100°	22.7	55.5	80.8	121.1	143.9
102.5°	32.8	65.6	98.4	143.9	166.6
105°	45.4	78.2	113.6	161.5	186.8
107.5°	58.0	93.4	128.7	176.7	201.9
110°	73.2	106.0	141.3	186.8	212.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	85.8	118.6	151.4	191.8	214.5
115°	98.4	128.7	159.0	196.9	214.5
117.5°	108.5	136.3	164.0	196.9	212.0
120°	116.1	141.3	166.6	191.8	204.4
122.5°	121.1	141.3	166.6	184.2	191.8
125°	126.2	141.3	166.6	174.1	181.7
127.5°	126.2	138.8	164.0	166.6	171.6
130°	126.2	133.8	159.0	161.5	164.0
132.5°	123.7	126.2	156.5	159.0	161.5
135°	118.6	118.6	151.4	159.0	161.5
137.5°	111.0	113.6	143.9	161.5	161.5
140°	106.0	108.5	138.8	159.0	161.5
142.5°	98.4	106.0	131.2	154.0	159.0
145°	95.9	101.0	126.2	146.4	154.0
147.5°	93.4	98.4	116.1	138.8	146.4
150°	90.9	95.9	106.0	131.2	136.3
152.5°	88.3	93.4	101.0	123.7	128.7
155°	88.3	90.9	98.4	111.0	118.6
157.5°	88.3	90.9	93.4	101.0	106.0
160°	85.8	88.3	90.9	95.9	95.9
162.5°	85.8	85.8	90.9	90.9	90.9
165°	85.8	85.8	88.3	88.3	88.3
167.5°	85.8	85.8	85.8	85.8	85.8
170°	83.3	83.3	83.3	83.3	83.3
172.5°	83.3	83.3	80.8	80.8	78.2
175°	83.3	83.3	80.8	80.8	78.2
177.5°	83.3	83.3	80.8	80.8	78.2
180°	80.8	80.8	80.8	80.8	80.8

(END OF REPORT)