

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: P210492

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P210492
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35510)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S921DIP-W535-XX4XX-UDD-W
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE CURVILINEAR HOUSING
Light Source: (238) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6754.3 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.14 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: General Diffuse

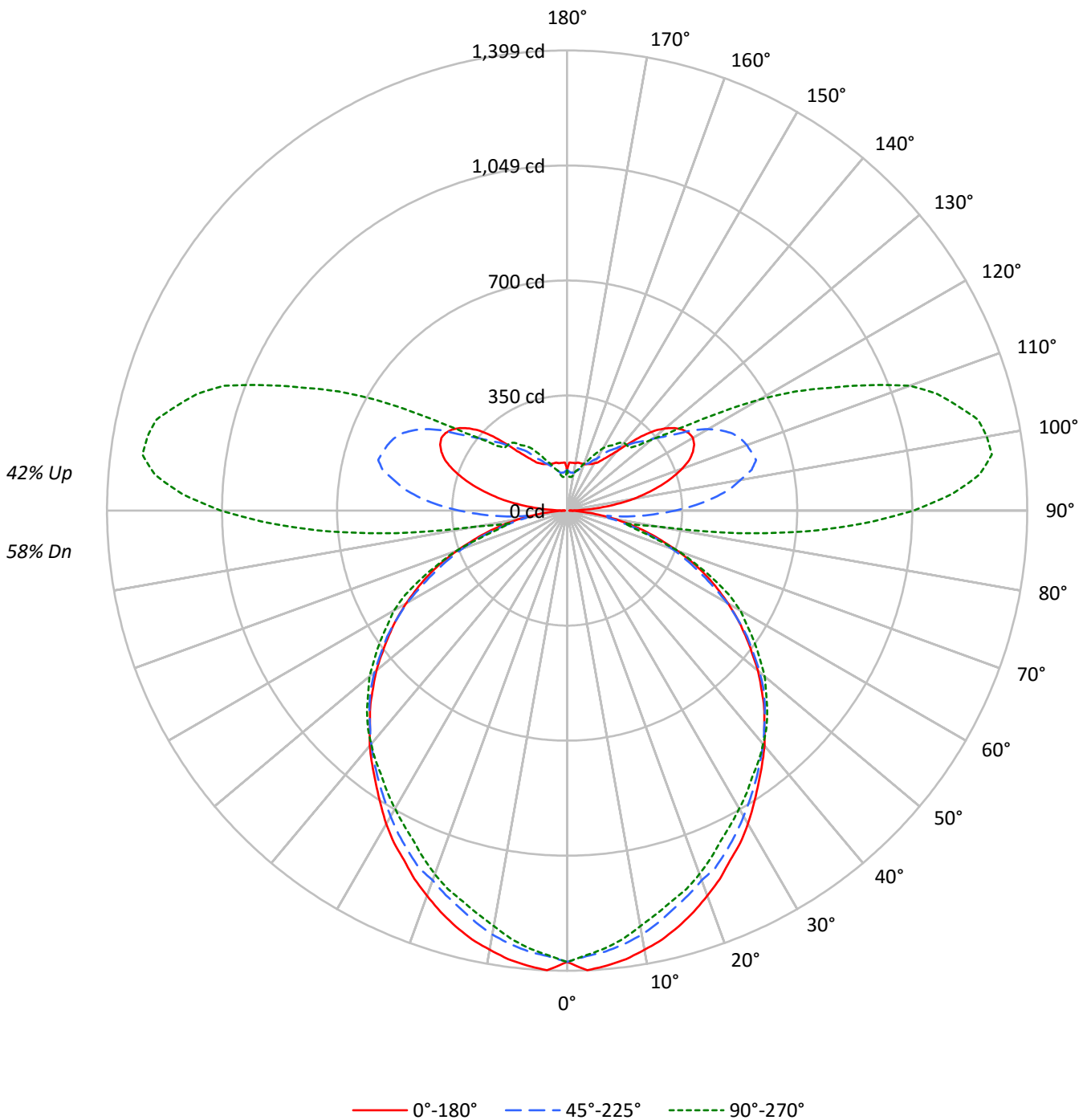
Input Watts (W): 68
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64	58
1	98	93	89	85	91	87	83	79	75	72	69	64	62	60	54	52	51	46
2	89	81	74	69	83	76	70	65	65	61	57	56	52	49	47	45	42	38
3	81	71	63	57	75	66	59	54	57	52	47	49	45	42	42	39	36	32
4	74	63	54	48	69	59	51	45	51	45	40	44	39	35	37	34	31	27
5	68	56	47	41	63	52	45	39	46	39	35	39	34	31	33	30	27	24
6	63	50	42	35	58	47	39	34	41	35	30	35	31	27	30	26	23	21
7	58	45	37	31	54	42	35	30	37	31	27	32	27	24	28	24	21	18
8	54	41	33	27	50	39	31	26	34	28	24	30	25	21	25	21	19	16
9	50	37	30	24	47	35	28	23	31	25	21	27	22	19	23	20	17	15
10	47	34	27	22	44	32	26	21	29	23	19	25	20	17	22	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5450	5450	5450
5°	5500	5194	5122
10°	5394	4951	4788
15°	5274	4679	4506
20°	5122	4447	4265
25°	4962	4261	4000
30°	4829	4044	3801
35°	4662	3838	3616
40°	4547	3653	3478
45°	4418	3472	3322
50°	4287	3260	3141
55°	4125	3008	2914
60°	3958	2700	2701
65°	3752	2316	2323
70°	3407	1935	1852
75°	2970	1464	1209
80°	2327	922	1783
85°	1289	1714	5347



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.3	1.9
10°-20°	356.8	5.3
20°-30°	527.4	7.8
30°-40°	628.9	9.3
40°-50°	659.3	9.8
50°-60°	603.2	8.9
60°-70°	460.1	6.8
70°-80°	251.5	3.7
80°-90°	329.3	4.9
90°-100°	620.4	9.2
100°-110°	708.8	10.5
110°-120°	594.3	8.8
120°-130°	390.9	5.8
130°-140°	228.8	3.4
140°-150°	138.9	2.1
150°-160°	77.5	1.1
160°-170°	38.5	0.6
170°-180°	11.7	0.2
0°-30°	1012.4	15.0
0°-40°	1641.3	24.3
0°-60°	2903.8	43.0
0°-90°	3944.6	58.4
90°-120°	1923.5	28.5
90°-150°	2682.0	39.7
90°-180°	2810.0	41.6
0°-180°	6754.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1372	1372	1372	1372	1372	
5°	1389	1379	1346	1342	1336	131
15°	1309	1296	1253	1236	1229	369
25°	1173	1170	1143	1123	1106	542
35°	1013	1023	1000	990	984	636
45°	847	857	851	860	860	653
55°	661	671	668	684	694	592
65°	465	462	445	482	488	458
75°	249	236	229	219	213	262
85°	53	70	199	538	728	64
90°	7	120	329	811	1053	11
95°	100	206	448	980	1259	103
105°	296	349	595	1010	1229	309
115°	422	432	555	768	884	413
125°	429	429	405	435	458	381
135°	319	299	292	276	269	247
145°	189	196	223	242	242	122
155°	156	153	160	176	183	73
165°	150	140	126	130	130	42
175°	146	140	116	106	103	14
180°	123	123	123	123	123	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1372.2	1372.2	1372.2	1372.2	1372.2
2.5°	1398.8	1388.8	1355.6	1355.6	1352.3
5°	1388.8	1378.8	1345.6	1342.3	1335.7
7.5°	1375.5	1362.2	1329.0	1322.4	1312.4
10°	1355.6	1345.6	1309.1	1295.8	1282.5
12.5°	1335.7	1322.4	1282.5	1269.2	1255.9
15°	1309.1	1295.8	1252.6	1236.0	1229.3
17.5°	1279.2	1265.9	1226.0	1219.4	1206.1
20°	1245.9	1232.7	1196.1	1189.5	1176.2
22.5°	1212.7	1202.8	1176.2	1156.2	1142.9
25°	1172.9	1169.5	1142.9	1123.0	1106.4
27.5°	1139.6	1133.0	1109.7	1089.8	1076.5
30°	1099.8	1096.4	1073.2	1056.6	1046.6
32.5°	1056.6	1059.9	1036.6	1026.7	1016.7
35°	1013.4	1023.3	1000.1	990.1	983.5
37.5°	973.5	986.8	963.5	960.2	956.9
40°	933.6	943.6	927.0	927.0	927.0
42.5°	887.1	900.4	887.1	897.1	897.1
45°	847.2	857.2	850.6	860.5	860.5
47.5°	800.7	810.7	810.7	820.7	820.7
50°	757.5	767.5	764.2	777.5	784.1
52.5°	707.7	717.7	714.3	734.3	737.6
55°	661.2	671.1	667.8	684.4	694.4
57.5°	614.7	624.6	614.7	634.6	647.9
60°	564.8	574.8	561.5	581.4	608.0
62.5°	515.0	518.3	501.7	534.9	554.9
65°	465.2	461.8	445.2	481.8	488.4
67.5°	412.0	405.3	392.1	418.6	422.0
70°	355.5	348.9	338.9	352.2	358.8
72.5°	299.0	292.4	285.7	289.1	275.8
75°	249.2	235.9	229.3	219.3	212.6
77.5°	196.0	186.1	172.8	169.4	179.4
80°	146.2	146.2	126.3	176.1	279.1
82.5°	96.4	103.0	122.9	382.1	525.0
85°	53.2	69.8	199.4	538.2	727.6
87.5°	23.3	83.1	262.5	674.5	900.4
90°	6.6	119.6	328.9	810.7	1053.2
92.5°	46.5	166.1	392.1	910.4	1172.9
95°	99.7	206.0	448.5	980.1	1259.2
97.5°	152.8	255.8	498.4	1026.7	1302.4
100°	206.0	289.1	534.9	1036.6	1295.8
102.5°	249.2	322.3	574.8	1030.0	1279.2
105°	295.7	348.9	594.7	1010.0	1229.3
107.5°	335.6	372.1	588.1	980.1	1179.5
110°	372.1	385.4	581.4	910.4	1109.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	402.0	408.7	571.5	837.3	996.8
115°	422.0	431.9	554.9	767.5	883.8
117.5°	435.3	445.2	528.3	691.1	784.1
120°	441.9	448.5	495.1	618.0	674.5
122.5°	438.6	445.2	455.2	528.3	558.2
125°	428.6	428.6	405.3	435.3	458.5
127.5°	412.0	408.7	368.8	368.8	385.4
130°	388.7	375.4	338.9	319.0	335.6
132.5°	358.8	335.6	312.3	282.4	292.4
135°	319.0	299.0	292.4	275.8	269.1
137.5°	275.8	265.8	269.1	275.8	269.1
140°	235.9	239.2	255.8	269.1	269.1
142.5°	209.3	219.3	235.9	252.5	259.2
145°	189.4	196.0	222.6	242.5	242.5
147.5°	172.8	179.4	202.7	225.9	232.6
150°	166.1	172.8	182.7	209.3	219.3
152.5°	159.5	159.5	172.8	196.0	199.4
155°	156.2	152.8	159.5	176.1	182.7
157.5°	152.8	149.5	152.8	159.5	162.8
160°	149.5	142.9	142.9	149.5	152.8
162.5°	149.5	139.5	136.2	142.9	139.5
165°	149.5	139.5	126.3	129.6	129.6
167.5°	149.5	136.2	122.9	119.6	122.9
170°	146.2	136.2	116.3	116.3	109.6
172.5°	146.2	136.2	116.3	109.6	103.0
175°	146.2	139.5	116.3	106.3	103.0
177.5°	146.2	139.5	119.6	109.6	103.0
180°	122.9	122.9	122.9	122.9	122.9

(END OF REPORT)