

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: P534530

Luminaire Tested: **S921DIP-W235-XX4XX-UDD-W**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534530
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35510-R2)
Test Lab: INNOVATION CENTER
Issue Date: 6/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S921DIP-W235-XX4XX-UDD-W
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE CURVILINEAR HOUSING
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

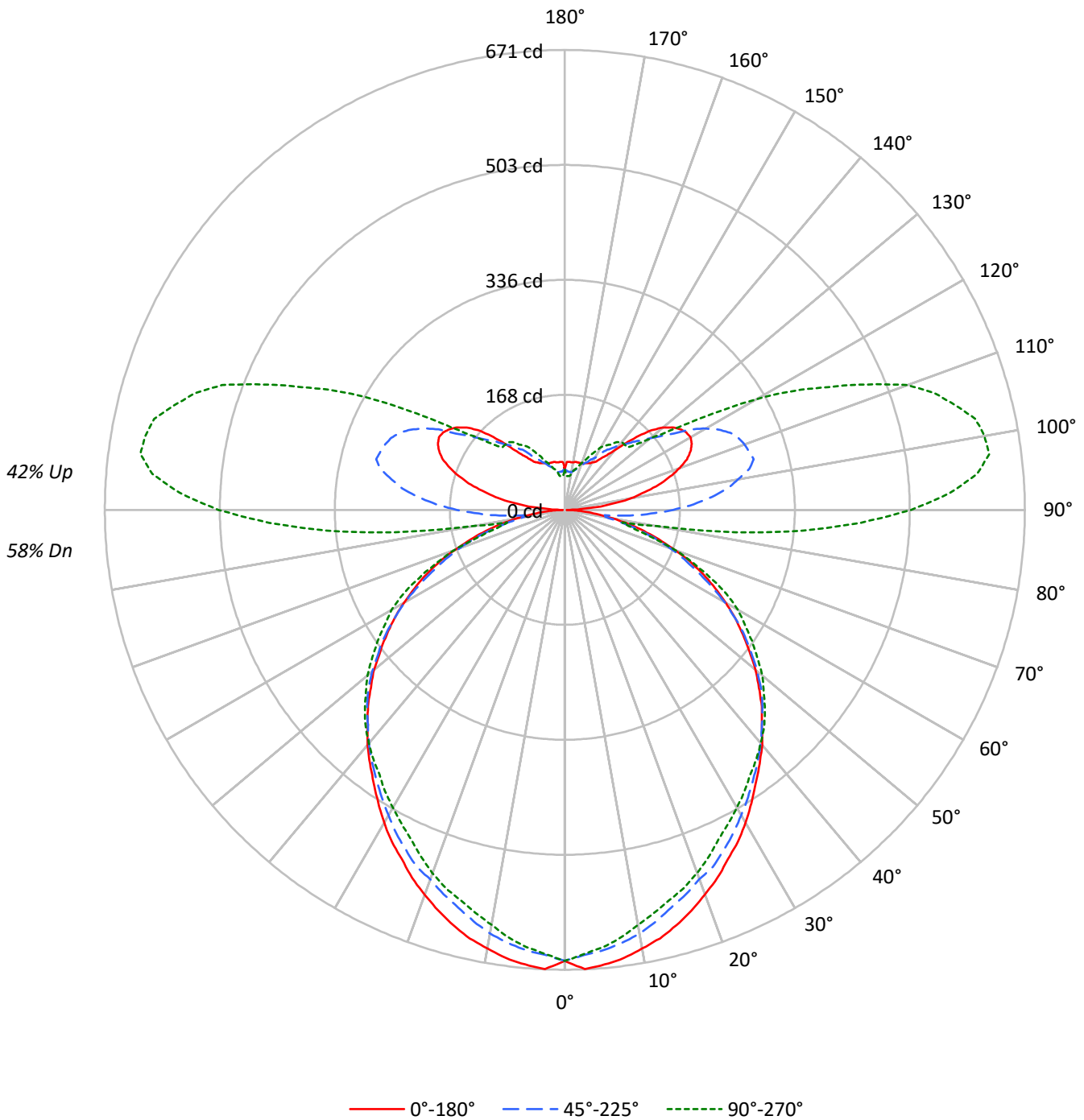
Lumens per Lamp: N/A
Luminaire Lumens: 3238.6 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.14 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: General Diffuse

Input Watts (W): 27.7
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	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	36	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°	2614	2614	2614
5°	2637	2490	2456
10°	2586	2374	2296
15°	2529	2243	2161
20°	2456	2132	2045
25°	2379	2043	1918
30°	2315	1939	1823
35°	2235	1840	1734
40°	2180	1752	1668
45°	2118	1664	1593
50°	2055	1563	1506
55°	1977	1442	1398
60°	1898	1295	1295
65°	1799	1110	1114
70°	1634	928	888
75°	1424	701	580
80°	1116	442	855
85°	618	822	2564



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.5	1.9
10°-20°	171.1	5.3
20°-30°	252.9	7.8
30°-40°	301.5	9.3
40°-50°	316.1	9.8
50°-60°	289.2	8.9
60°-70°	220.6	6.8
70°-80°	120.6	3.7
80°-90°	157.9	4.9
90°-100°	297.5	9.2
100°-110°	339.9	10.5
110°-120°	285.0	8.8
120°-130°	187.4	5.8
130°-140°	109.7	3.4
140°-150°	66.6	2.1
150°-160°	37.1	1.1
160°-170°	18.5	0.6
170°-180°	5.6	0.2
0°-30°	485.5	15.0
0°-40°	787.0	24.3
0°-60°	1392.3	43.0
0°-90°	1891.4	58.4
90°-120°	922.3	28.5
90°-150°	1286.0	39.7
90°-180°	1347.0	41.6
0°-180°	3238.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	658	658	658	658	658	
5°	666	661	645	644	640	63
15°	628	621	601	593	590	177
25°	562	561	548	538	530	260
35°	486	491	480	475	472	305
45°	406	411	408	413	413	313
55°	317	322	320	328	333	284
65°	223	221	214	231	234	220
75°	120	113	110	105	102	126
85°	26	34	96	258	349	31
90°	3	57	158	389	505	5
95°	48	99	215	470	604	49
105°	142	167	285	484	590	148
115°	202	207	266	368	424	198
125°	206	206	194	209	220	182
135°	153	143	140	132	129	118
145°	91	94	107	116	116	59
155°	75	73	76	84	88	35
165°	72	67	60	62	62	20
175°	70	67	56	51	49	7
180°	59	59	59	59	59	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	658.0	658.0	658.0	658.0	658.0
2.5°	670.7	665.9	650.0	650.0	648.4
5°	665.9	661.2	645.2	643.6	640.4
7.5°	659.6	653.2	637.3	634.1	629.3
10°	650.0	645.2	627.7	621.3	614.9
12.5°	640.4	634.1	614.9	608.6	602.2
15°	627.7	621.3	600.6	592.6	589.5
17.5°	613.4	607.0	587.9	584.7	578.3
20°	597.4	591.1	573.5	570.3	564.0
22.5°	581.5	576.7	564.0	554.4	548.0
25°	562.4	560.8	548.0	538.5	530.5
27.5°	546.4	543.3	532.1	522.5	516.2
30°	527.3	525.7	514.6	506.6	501.8
32.5°	506.6	508.2	497.1	492.3	487.5
35°	485.9	490.7	479.5	474.8	471.6
37.5°	466.8	473.2	462.0	460.4	458.8
40°	447.7	452.5	444.5	444.5	444.5
42.5°	425.4	431.7	425.4	430.1	430.1
45°	406.2	411.0	407.8	412.6	412.6
47.5°	383.9	388.7	388.7	393.5	393.5
50°	363.2	368.0	366.4	372.8	376.0
52.5°	339.3	344.1	342.5	352.1	353.7
55°	317.0	321.8	320.2	328.2	333.0
57.5°	294.7	299.5	294.7	304.3	310.7
60°	270.8	275.6	269.2	278.8	291.5
62.5°	246.9	248.5	240.6	256.5	266.1
65°	223.0	221.4	213.5	231.0	234.2
67.5°	197.5	194.4	188.0	200.7	202.3
70°	170.5	167.3	162.5	168.9	172.1
72.5°	143.4	140.2	137.0	138.6	132.2
75°	119.5	113.1	109.9	105.1	102.0
77.5°	94.0	89.2	82.8	81.2	86.0
80°	70.1	70.1	60.5	84.4	133.8
82.5°	46.2	49.4	58.9	183.2	251.7
85°	25.5	33.5	95.6	258.1	348.9
87.5°	11.2	39.8	125.9	323.4	431.7
90°	3.2	57.4	157.7	388.7	505.0
92.5°	22.3	79.7	188.0	436.5	562.4
95°	47.8	98.8	215.1	470.0	603.8
97.5°	73.3	122.7	239.0	492.3	624.5
100°	98.8	138.6	256.5	497.1	621.3
102.5°	119.5	154.5	275.6	493.9	613.4
105°	141.8	167.3	285.2	484.3	589.5
107.5°	160.9	178.4	282.0	470.0	565.6
110°	178.4	184.8	278.8	436.5	532.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	192.8	196.0	274.0	401.5	477.9
115°	202.3	207.1	266.1	368.0	423.8
117.5°	208.7	213.5	253.3	331.4	376.0
120°	211.9	215.1	237.4	296.3	323.4
122.5°	210.3	213.5	218.3	253.3	267.6
125°	205.5	205.5	194.4	208.7	219.9
127.5°	197.5	196.0	176.8	176.8	184.8
130°	186.4	180.0	162.5	152.9	160.9
132.5°	172.1	160.9	149.8	135.4	140.2
135°	152.9	143.4	140.2	132.2	129.0
137.5°	132.2	127.5	129.0	132.2	129.0
140°	113.1	114.7	122.7	129.0	129.0
142.5°	100.4	105.1	113.1	121.1	124.3
145°	90.8	94.0	106.7	116.3	116.3
147.5°	82.8	86.0	97.2	108.3	111.5
150°	79.7	82.8	87.6	100.4	105.1
152.5°	76.5	76.5	82.8	94.0	95.6
155°	74.9	73.3	76.5	84.4	87.6
157.5°	73.3	71.7	73.3	76.5	78.1
160°	71.7	68.5	68.5	71.7	73.3
162.5°	71.7	66.9	65.3	68.5	66.9
165°	71.7	66.9	60.5	62.1	62.1
167.5°	71.7	65.3	58.9	57.4	58.9
170°	70.1	65.3	55.8	55.8	52.6
172.5°	70.1	65.3	55.8	52.6	49.4
175°	70.1	66.9	55.8	51.0	49.4
177.5°	70.1	66.9	57.4	52.6	49.4
180°	58.9	58.9	58.9	58.9	58.9

(END OF REPORT)