

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: P210490

Luminaire Tested: **S921DIP-W335-XX4XX-UDD-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P210490
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-W335-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: 4333.2 lumens
Efficiency: N/A
Efficacy: 112.6 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

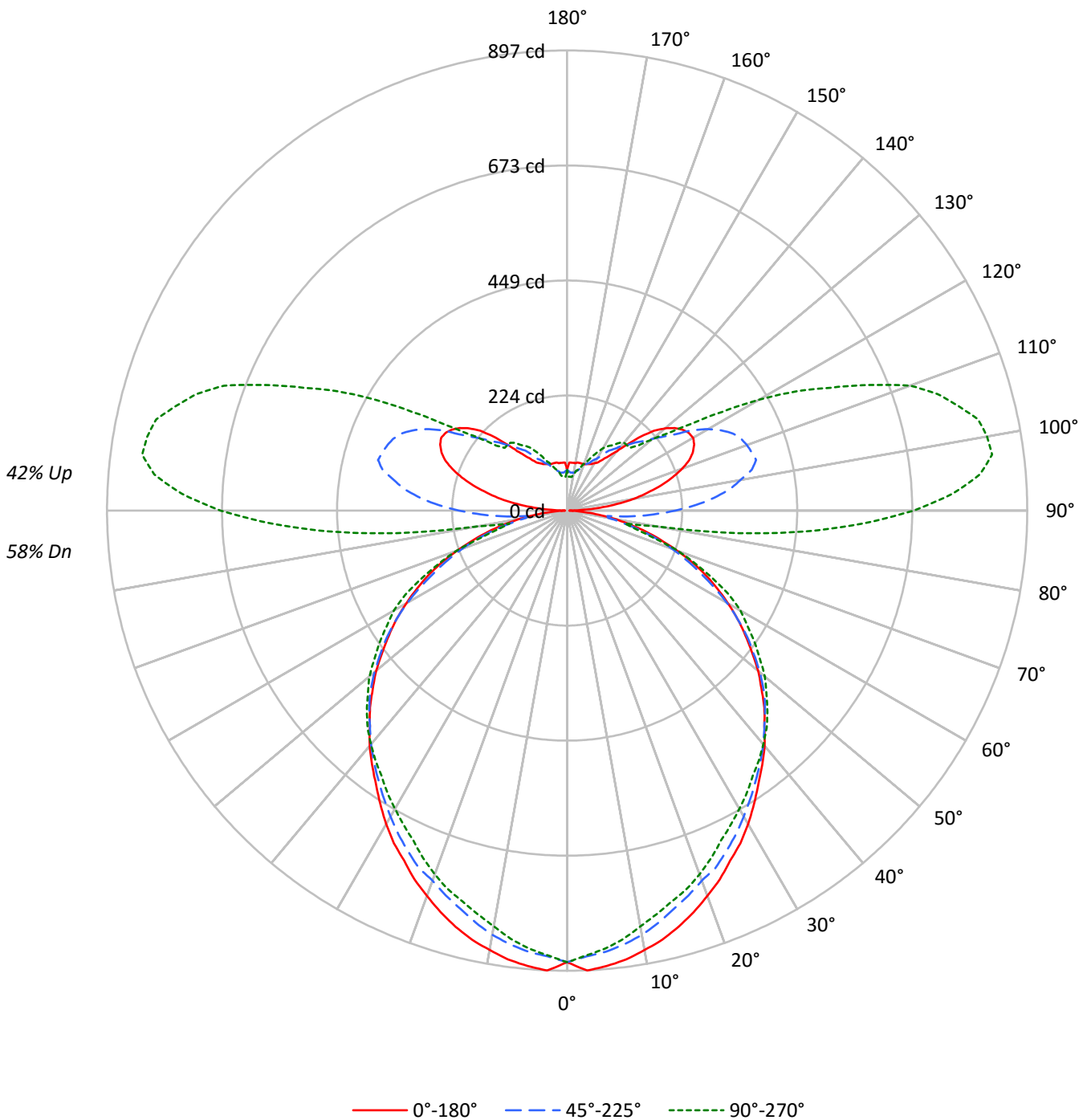
Input Watts (W): 38.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3496	3496	3496
5°	3529	3332	3286
10°	3461	3176	3072
15°	3383	3002	2891
20°	3286	2853	2736
25°	3183	2734	2566
30°	3098	2594	2439
35°	2991	2462	2320
40°	2917	2344	2231
45°	2835	2227	2131
50°	2750	2092	2016
55°	2646	1930	1870
60°	2540	1732	1733
65°	2407	1485	1490
70°	2186	1241	1188
75°	1906	939	776
80°	1493	591	1144
85°	826	1100	3430



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.3	1.9
10°-20°	228.9	5.3
20°-30°	338.3	7.8
30°-40°	403.4	9.3
40°-50°	423.0	9.8
50°-60°	387.0	8.9
60°-70°	295.2	6.8
70°-80°	161.3	3.7
80°-90°	211.3	4.9
90°-100°	398.0	9.2
100°-110°	454.7	10.5
110°-120°	381.3	8.8
120°-130°	250.8	5.8
130°-140°	146.8	3.4
140°-150°	89.1	2.1
150°-160°	49.7	1.1
160°-170°	24.7	0.6
170°-180°	7.5	0.2
0°-30°	649.5	15.0
0°-40°	1053.0	24.3
0°-60°	1862.9	43.0
0°-90°	2530.7	58.4
90°-120°	1234.0	28.5
90°-150°	1720.7	39.7
90°-180°	1803.0	41.6
0°-180°	4333.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	880	880	880	880	880	
5°	891	885	863	861	857	84
15°	840	831	804	793	789	237
25°	752	750	733	720	710	347
35°	650	656	642	635	631	408
45°	544	550	546	552	552	419
55°	424	431	428	439	446	380
65°	298	296	286	309	313	294
75°	160	151	147	141	136	168
85°	34	45	128	345	467	41
90°	4	77	211	520	676	7
95°	64	132	288	629	808	66
105°	190	224	382	648	789	198
115°	271	277	356	492	567	265
125°	275	275	260	279	294	244
135°	205	192	188	177	173	158
145°	122	126	143	156	156	78
155°	100	98	102	113	117	47
165°	96	90	81	83	83	27
175°	94	90	75	68	66	9
180°	79	79	79	79	79	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	880.3	880.3	880.3	880.3	880.3
2.5°	897.4	891.0	869.7	869.7	867.6
5°	891.0	884.6	863.3	861.2	856.9
7.5°	882.5	873.9	852.6	848.4	842.0
10°	869.7	863.3	839.8	831.3	822.8
12.5°	856.9	848.4	822.8	814.3	805.7
15°	839.8	831.3	803.6	792.9	788.7
17.5°	820.7	812.1	786.6	782.3	773.8
20°	799.3	790.8	767.4	763.1	754.6
22.5°	778.0	771.6	754.6	741.8	733.3
25°	752.4	750.3	733.3	720.5	709.8
27.5°	731.1	726.9	711.9	699.2	690.6
30°	705.6	703.4	688.5	677.8	671.4
32.5°	677.8	680.0	665.1	658.7	652.3
35°	650.1	656.5	641.6	635.2	630.9
37.5°	624.6	633.1	618.2	616.0	613.9
40°	599.0	605.4	594.7	594.7	594.7
42.5°	569.1	577.7	569.1	575.5	575.5
45°	543.6	549.9	545.7	552.1	552.1
47.5°	513.7	520.1	520.1	526.5	526.5
50°	486.0	492.4	490.3	498.8	503.1
52.5°	454.0	460.4	458.3	471.1	473.2
55°	424.2	430.6	428.4	439.1	445.5
57.5°	394.3	400.7	394.3	407.1	415.7
60°	362.4	368.8	360.2	373.0	390.1
62.5°	330.4	332.5	321.9	343.2	356.0
65°	298.4	296.3	285.6	309.1	313.3
67.5°	264.3	260.1	251.5	268.6	270.7
70°	228.1	223.8	217.4	225.9	230.2
72.5°	191.8	187.6	183.3	185.4	176.9
75°	159.9	151.3	147.1	140.7	136.4
77.5°	125.8	119.4	110.8	108.7	115.1
80°	93.8	93.8	81.0	113.0	179.1
82.5°	61.8	66.1	78.9	245.1	336.8
85°	34.1	44.8	127.9	345.3	466.8
87.5°	14.9	53.3	168.4	432.7	577.7
90°	4.3	76.7	211.0	520.1	675.7
92.5°	29.8	106.6	251.5	584.1	752.4
95°	63.9	132.2	287.8	628.8	807.9
97.5°	98.1	164.1	319.7	658.7	835.6
100°	132.2	185.4	343.2	665.1	831.3
102.5°	159.9	206.8	368.8	660.8	820.7
105°	189.7	223.8	381.6	648.0	788.7
107.5°	215.3	238.7	377.3	628.8	756.7
110°	238.7	247.3	373.0	584.1	711.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	257.9	262.2	366.6	537.2	639.5
115°	270.7	277.1	356.0	492.4	567.0
117.5°	279.2	285.6	338.9	443.4	503.1
120°	283.5	287.8	317.6	396.5	432.7
122.5°	281.4	285.6	292.0	338.9	358.1
125°	275.0	275.0	260.1	279.2	294.2
127.5°	264.3	262.2	236.6	236.6	247.3
130°	249.4	240.9	217.4	204.6	215.3
132.5°	230.2	215.3	200.4	181.2	187.6
135°	204.6	191.8	187.6	176.9	172.7
137.5°	176.9	170.5	172.7	176.9	172.7
140°	151.3	153.5	164.1	172.7	172.7
142.5°	134.3	140.7	151.3	162.0	166.3
145°	121.5	125.8	142.8	155.6	155.6
147.5°	110.8	115.1	130.0	144.9	149.2
150°	106.6	110.8	117.2	134.3	140.7
152.5°	102.3	102.3	110.8	125.8	127.9
155°	100.2	98.1	102.3	113.0	117.2
157.5°	98.1	95.9	98.1	102.3	104.4
160°	95.9	91.7	91.7	95.9	98.1
162.5°	95.9	89.5	87.4	91.7	89.5
165°	95.9	89.5	81.0	83.1	83.1
167.5°	95.9	87.4	78.9	76.7	78.9
170°	93.8	87.4	74.6	74.6	70.3
172.5°	93.8	87.4	74.6	70.3	66.1
175°	93.8	89.5	74.6	68.2	66.1
177.5°	93.8	89.5	76.7	70.3	66.1
180°	78.9	78.9	78.9	78.9	78.9

(END OF REPORT)