

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: P534476

Luminaire Tested: **S920DIP-W135-XX4XX-UDD-W**

Issue Date: 6/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534476  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29790)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S920DIP-W135-XX4XX-UDD-W  
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE  
WHITE RECTANCULAR HOUSING  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

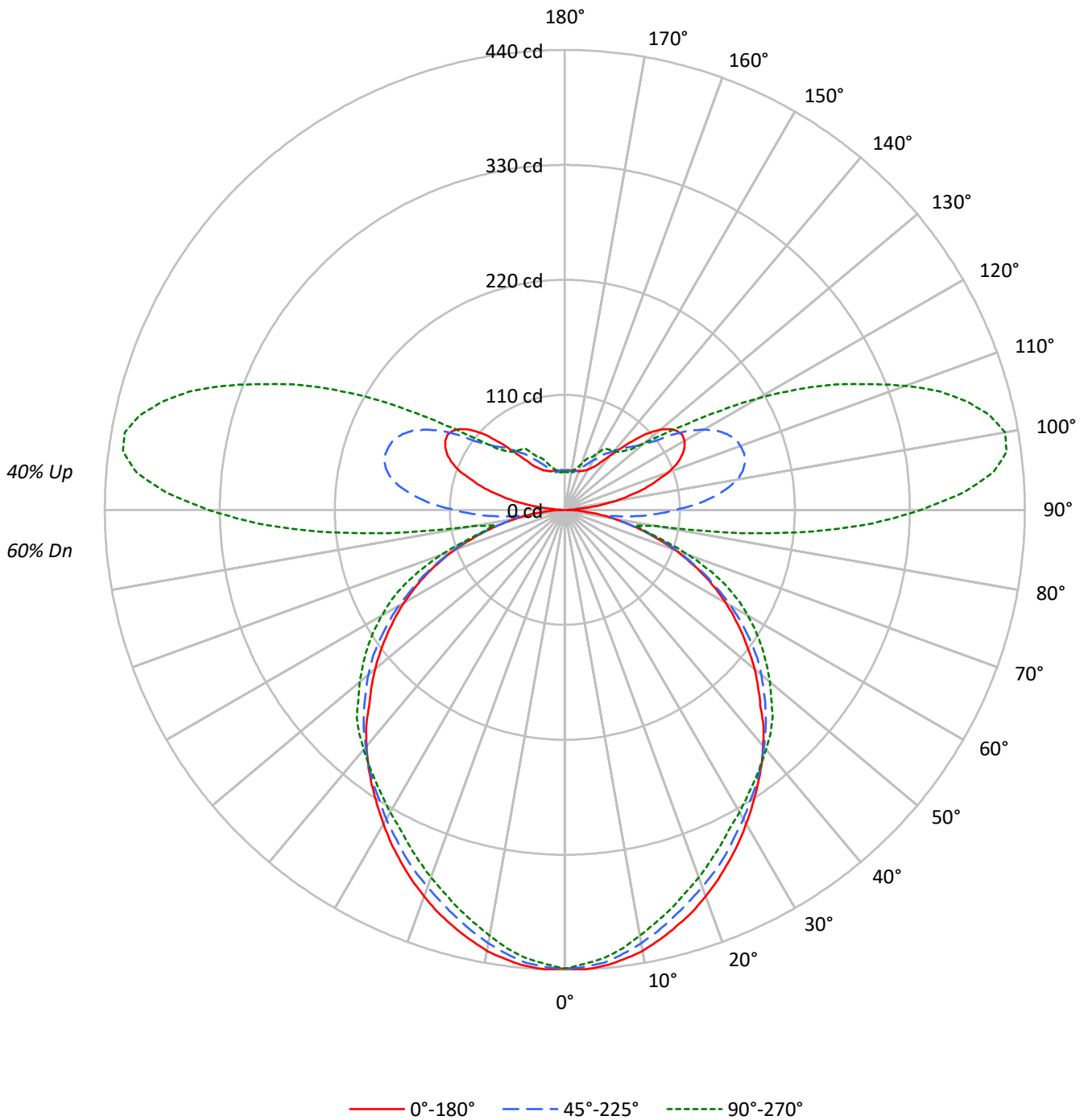
Lumens per Lamp: N/A  
Luminaire Lumens: 2132.9 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.32  
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')  
CIE Type: General Diffuse

Input Watts (W): 18.1  
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	89	89	89	76	76	76	65	65	65	60
1	98	93	89	85	91	87	83	79	75	72	70	65	62	60	55	53	52	47
2	89	81	74	68	83	76	70	64	66	61	57	56	53	50	48	45	43	39
3	81	71	63	57	75	66	59	54	58	52	48	50	45	42	42	39	36	32
4	74	63	54	48	69	59	51	45	51	45	40	44	39	36	38	34	31	28
5	68	56	47	41	63	52	45	39	46	39	35	39	35	31	34	30	27	24
6	63	50	41	35	58	47	39	34	41	35	30	36	31	27	31	27	24	21
7	58	45	37	31	54	42	35	29	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	26	22	19	16
9	50	37	30	24	47	35	28	23	31	25	21	27	22	19	24	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°	1743	1743	1743
5°	1734	1678	1651
10°	1705	1592	1544
15°	1662	1505	1446
20°	1618	1427	1358
25°	1571	1356	1277
30°	1523	1287	1214
35°	1479	1226	1163
40°	1437	1167	1123
45°	1379	1109	1086
50°	1341	1047	1026
55°	1293	972	968
60°	1245	880	897
65°	1178	775	805
70°	1074	652	650
75°	920	506	457
80°	740	339	561
85°	436	591	1749



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.0	1.9
10°-20°	113.6	5.3
20°-30°	167.1	7.8
30°-40°	199.6	9.4
40°-50°	209.8	9.8
50°-60°	193.8	9.1
60°-70°	151.6	7.1
70°-80°	85.9	4.0
80°-90°	108.1	5.1
90°-100°	197.2	9.2
100°-110°	219.7	10.3
110°-120°	182.8	8.6
120°-130°	119.7	5.6
130°-140°	66.4	3.1
140°-150°	39.4	1.8
150°-160°	22.3	1.0
160°-170°	11.3	0.5
170°-180°	3.6	0.2
0°-30°	321.6	15.1
0°-40°	521.2	24.4
0°-60°	924.8	43.4
0°-90°	1270.5	59.6
90°-120°	599.8	28.1
90°-150°	825.3	38.7
90°-180°	862.0	40.4
0°-180°	2132.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	439	439	439	439	439	
5°	438	435	435	432	430	41
15°	412	408	403	397	394	116
25°	371	368	364	356	353	171
35°	322	320	319	316	316	201
45°	264	266	272	278	281	205
55°	207	208	216	225	231	185
65°	146	145	149	165	169	144
75°	77	76	79	80	80	82
85°	18	23	69	178	238	21
90°	1	36	106	258	341	2
95°	17	60	143	318	411	21
105°	79	100	179	323	399	82
115°	124	124	171	241	284	121
125°	131	129	125	139	144	116
135°	95	88	85	76	79	74
145°	51	54	64	71	71	34
155°	41	41	48	53	55	19
165°	39	38	38	40	41	11
175°	38	38	37	37	36	4
180°	37	37	37	37	37	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	438.9	438.9	438.9	438.9	438.9
2.5°	440.0	436.8	437.9	436.8	434.7
5°	437.9	434.7	434.7	431.5	430.5
7.5°	433.7	429.4	428.4	424.1	423.1
10°	428.4	424.1	421.0	415.7	413.6
12.5°	421.0	416.7	412.5	407.2	404.0
15°	412.5	408.3	403.0	396.6	394.5
17.5°	404.0	398.8	393.5	387.1	383.9
20°	393.5	388.2	383.9	376.5	374.4
22.5°	382.9	378.7	374.4	366.0	363.8
25°	371.3	368.1	363.8	356.4	353.3
27.5°	359.6	356.4	352.2	345.9	342.7
30°	346.9	344.8	341.6	335.3	334.2
32.5°	334.2	333.2	330.0	325.8	324.7
35°	321.5	320.5	319.4	316.3	316.3
37.5°	308.8	307.8	307.8	306.7	307.8
40°	295.1	294.0	296.2	297.2	299.3
42.5°	281.3	281.3	284.5	288.8	290.9
45°	264.4	265.5	271.8	278.2	281.3
47.5°	250.7	251.7	258.1	265.5	267.6
50°	236.9	236.9	245.4	251.7	256.0
52.5°	222.1	223.2	231.6	239.0	243.3
55°	207.3	208.4	215.8	225.3	230.6
57.5°	192.5	192.5	199.9	210.5	216.8
60°	177.7	177.7	183.0	194.6	202.0
62.5°	161.8	161.8	165.0	180.9	187.2
65°	146.0	144.9	149.1	165.0	169.2
67.5°	129.0	128.0	131.2	147.0	148.1
70°	112.1	110.0	114.2	125.9	125.9
72.5°	94.1	93.1	98.4	102.6	100.5
75°	77.2	76.2	79.3	80.4	80.4
77.5°	61.3	61.3	61.3	63.5	68.8
80°	46.5	47.6	46.5	62.4	87.8
82.5°	32.8	32.8	44.4	122.7	170.3
85°	18.0	23.3	68.8	177.7	238.0
87.5°	7.4	26.4	88.8	221.1	295.1
90°	1.1	36.0	105.8	258.1	340.6
92.5°	6.3	49.7	126.9	294.0	381.8
95°	16.9	60.3	142.8	318.4	411.4
97.5°	33.8	71.9	156.5	335.3	426.3
100°	49.7	82.5	168.2	337.4	427.3
102.5°	63.5	92.0	174.5	333.2	416.7
105°	79.3	100.5	178.8	322.6	398.8
107.5°	92.0	107.9	179.8	305.7	376.5
110°	105.8	112.1	178.8	285.6	346.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	116.3	117.4	176.6	262.3	314.1
115°	123.8	123.8	171.3	241.2	283.5
117.5°	129.0	130.1	163.9	220.0	248.6
120°	132.2	133.3	153.4	195.7	213.7
122.5°	133.3	132.2	140.7	167.1	176.6
125°	131.2	129.0	124.8	138.6	143.8
127.5°	126.9	121.6	107.9	114.2	118.5
130°	119.5	111.1	97.3	94.1	99.4
132.5°	108.9	99.4	89.9	82.5	85.7
135°	95.2	87.8	84.6	76.2	79.3
137.5°	80.4	77.2	79.3	76.2	75.1
140°	67.7	68.8	74.0	74.0	74.0
142.5°	58.2	61.3	68.8	73.0	71.9
145°	50.8	53.9	64.5	70.9	70.9
147.5°	47.6	48.7	58.2	64.5	68.8
150°	44.4	45.5	55.0	60.3	62.4
152.5°	42.3	43.4	50.8	57.1	57.1
155°	41.3	41.3	47.6	52.9	55.0
157.5°	40.2	40.2	44.4	49.7	51.8
160°	39.1	39.1	42.3	47.6	46.5
162.5°	39.1	38.1	40.2	43.4	43.4
165°	39.1	38.1	38.1	40.2	41.3
167.5°	39.1	38.1	37.0	38.1	38.1
170°	38.1	38.1	37.0	37.0	36.0
172.5°	38.1	38.1	38.1	37.0	36.0
175°	38.1	38.1	37.0	37.0	36.0
177.5°	38.1	38.1	38.1	37.0	36.0
180°	37.0	37.0	37.0	37.0	37.0

(END OF REPORT)