

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: P534509

Luminaire Tested: **S920DIP-W530-XX4XX-UDD-W**

Issue Date: 6/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534509  
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-W530-XX4XX-UDD-W  
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE  
WHITE RECTANCULAR HOUSING  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

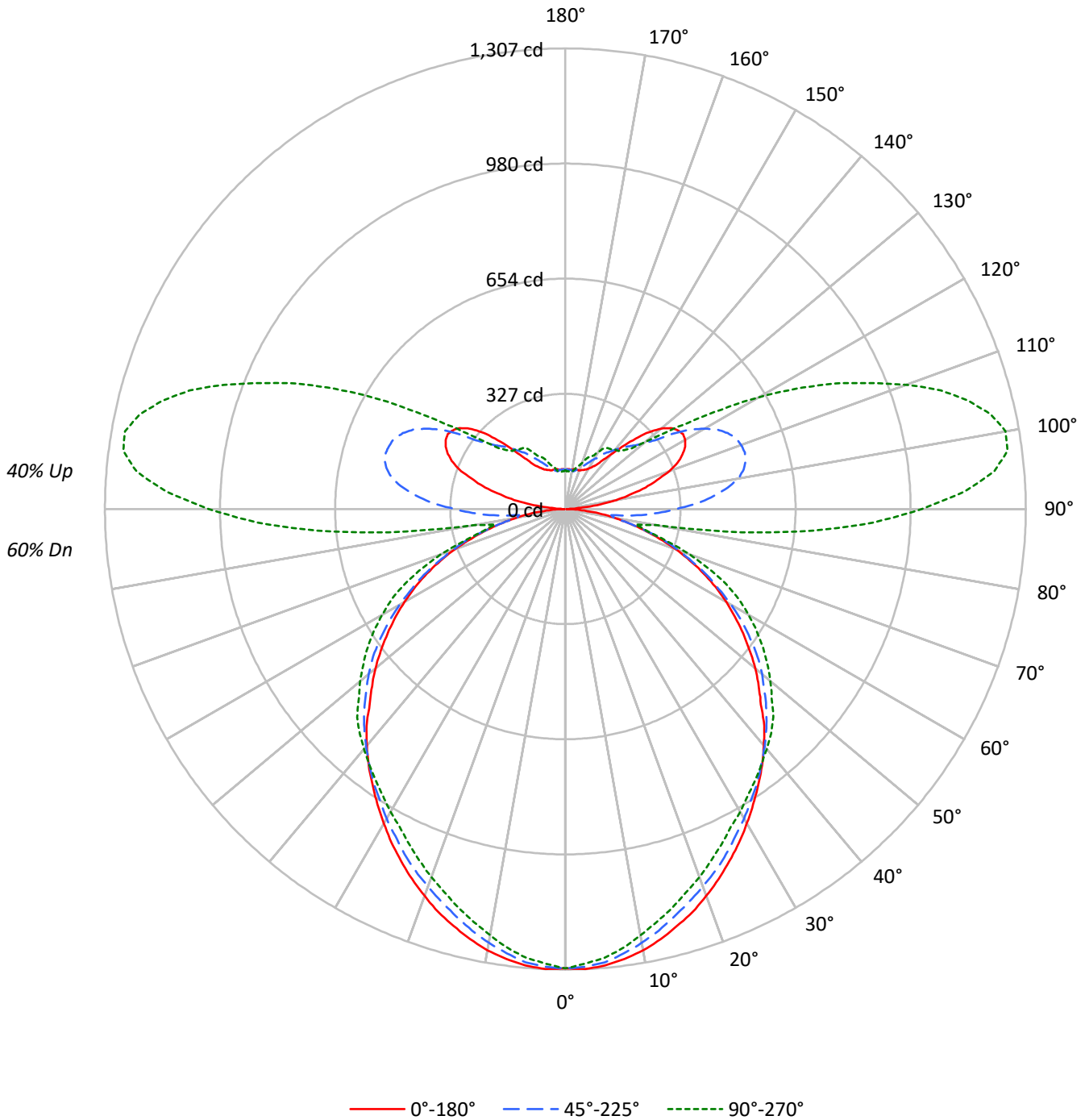
Lumens per Lamp: N/A  
Luminaire Lumens: 6334.5 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.32  
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')  
CIE Type: General Diffuse

Input Watts (W): 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: 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	40	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°	5178	5178	5178
5°	5150	4984	4902
10°	5062	4729	4586
15°	4936	4471	4294
20°	4805	4239	4032
25°	4665	4029	3793
30°	4524	3823	3605
35°	4393	3641	3454
40°	4268	3466	3336
45°	4095	3295	3226
50°	3982	3109	3046
55°	3841	2886	2874
60°	3698	2613	2665
65°	3496	2304	2391
70°	3191	1937	1929
75°	2733	1504	1358
80°	2200	1009	1665
85°	1294	1755	5194



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.7	1.9
10°-20°	337.3	5.3
20°-30°	496.3	7.8
30°-40°	592.8	9.4
40°-50°	623.1	9.8
50°-60°	575.6	9.1
60°-70°	450.2	7.1
70°-80°	255.2	4.0
80°-90°	321.1	5.1
90°-100°	585.6	9.2
100°-110°	652.6	10.3
110°-120°	543.0	8.6
120°-130°	355.4	5.6
130°-140°	197.2	3.1
140°-150°	117.1	1.8
150°-160°	66.1	1.0
160°-170°	33.5	0.5
170°-180°	10.6	0.2
0°-30°	955.2	15.1
0°-40°	1548.0	24.4
0°-60°	2746.7	43.4
0°-90°	3773.3	59.6
90°-120°	1781.2	28.1
90°-150°	2451.0	38.7
90°-180°	2561.0	40.4
0°-180°	6334.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1304	1304	1304	1304	1304	
5°	1300	1291	1291	1282	1278	123
15°	1225	1212	1197	1178	1172	345
25°	1103	1093	1081	1059	1049	508
35°	955	952	949	939	939	598
45°	785	788	807	826	836	609
55°	616	619	641	669	685	551
65°	434	430	443	490	503	427
75°	229	226	236	239	239	244
85°	53	69	204	528	707	63
90°	3	107	314	766	1012	6
95°	50	179	424	946	1222	64
105°	236	298	531	958	1184	245
115°	368	368	509	716	842	359
125°	390	383	371	412	427	345
135°	283	261	251	226	236	219
145°	151	160	192	210	210	100
155°	122	122	141	157	163	57
165°	116	113	113	119	122	33
175°	113	113	110	110	107	11
180°	110	110	110	110	110	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1303.6	1303.6	1303.6	1303.6	1303.6
2.5°	1306.8	1297.3	1300.5	1297.3	1291.1
5°	1300.5	1291.1	1291.1	1281.6	1278.5
7.5°	1287.9	1275.4	1272.2	1259.7	1256.5
10°	1272.2	1259.7	1250.2	1234.5	1228.2
12.5°	1250.2	1237.7	1225.1	1209.4	1200.0
15°	1225.1	1212.5	1196.8	1178.0	1171.7
17.5°	1200.0	1184.3	1168.6	1149.7	1140.3
20°	1168.6	1152.8	1140.3	1118.3	1112.0
22.5°	1137.1	1124.6	1112.0	1086.9	1080.6
25°	1102.6	1093.2	1080.6	1058.6	1049.2
27.5°	1068.0	1058.6	1046.0	1027.2	1017.8
30°	1030.3	1024.1	1014.6	995.8	992.6
32.5°	992.6	989.5	980.1	967.5	964.4
35°	954.9	951.8	948.7	939.2	939.2
37.5°	917.3	914.1	914.1	911.0	914.1
40°	876.4	873.3	879.6	882.7	889.0
42.5°	835.6	835.6	845.0	857.6	863.9
45°	785.3	788.5	807.3	826.2	835.6
47.5°	744.5	747.6	766.5	788.5	794.7
50°	703.6	703.6	728.8	747.6	760.2
52.5°	659.7	662.8	687.9	709.9	722.5
55°	615.7	618.8	640.8	669.1	684.8
57.5°	571.7	571.7	593.7	625.1	644.0
60°	527.7	527.7	543.4	578.0	600.0
62.5°	480.6	480.6	490.0	537.2	556.0
65°	433.5	430.4	442.9	490.0	502.6
67.5°	383.2	380.1	389.5	436.6	439.8
70°	333.0	326.7	339.3	373.8	373.8
72.5°	279.6	276.4	292.1	304.7	298.4
75°	229.3	226.2	235.6	238.7	238.7
77.5°	182.2	182.2	182.2	188.5	204.2
80°	138.2	141.4	138.2	185.3	260.7
82.5°	97.4	97.4	131.9	364.4	505.7
85°	53.4	69.1	204.2	527.7	706.8
87.5°	22.0	78.5	263.9	656.5	876.4
90°	3.1	106.8	314.1	766.5	1011.5
92.5°	18.8	147.6	377.0	873.3	1134.0
95°	50.3	179.1	424.1	945.5	1222.0
97.5°	100.5	213.6	464.9	995.8	1265.9
100°	147.6	245.0	499.5	1002.1	1269.1
102.5°	188.5	273.3	518.3	989.5	1237.7
105°	235.6	298.4	530.9	958.1	1184.3
107.5°	273.3	320.4	534.0	907.8	1118.3
110°	314.1	333.0	530.9	848.1	1030.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	345.5	348.7	524.6	779.0	933.0
115°	367.5	367.5	508.9	716.2	841.9
117.5°	383.2	386.4	486.9	653.4	738.2
120°	392.7	395.8	455.5	581.1	634.5
122.5°	395.8	392.7	417.8	496.3	524.6
125°	389.5	383.2	370.7	411.5	427.2
127.5°	377.0	361.2	320.4	339.3	351.8
130°	355.0	329.8	289.0	279.6	295.3
132.5°	323.6	295.3	267.0	245.0	254.4
135°	282.7	260.7	251.3	226.2	235.6
137.5°	238.7	229.3	235.6	226.2	223.0
140°	201.0	204.2	219.9	219.9	219.9
142.5°	172.8	182.2	204.2	216.7	213.6
145°	150.8	160.2	191.6	210.5	210.5
147.5°	141.4	144.5	172.8	191.6	204.2
150°	131.9	135.1	163.3	179.1	185.3
152.5°	125.7	128.8	150.8	169.6	169.6
155°	122.5	122.5	141.4	157.1	163.3
157.5°	119.4	119.4	131.9	147.6	153.9
160°	116.2	116.2	125.7	141.4	138.2
162.5°	116.2	113.1	119.4	128.8	128.8
165°	116.2	113.1	113.1	119.4	122.5
167.5°	116.2	113.1	109.9	113.1	113.1
170°	113.1	113.1	109.9	109.9	106.8
172.5°	113.1	113.1	113.1	109.9	106.8
175°	113.1	113.1	109.9	109.9	106.8
177.5°	113.1	113.1	113.1	109.9	106.8
180°	109.9	109.9	109.9	109.9	109.9

(END OF REPORT)