

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1057851

Luminaire Tested: S122RDR-S1005D935-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1057851  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-55 )  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDR-S1005D935-X4F0-XX-UDD-WVL-W  
Description: DEFINE 2 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

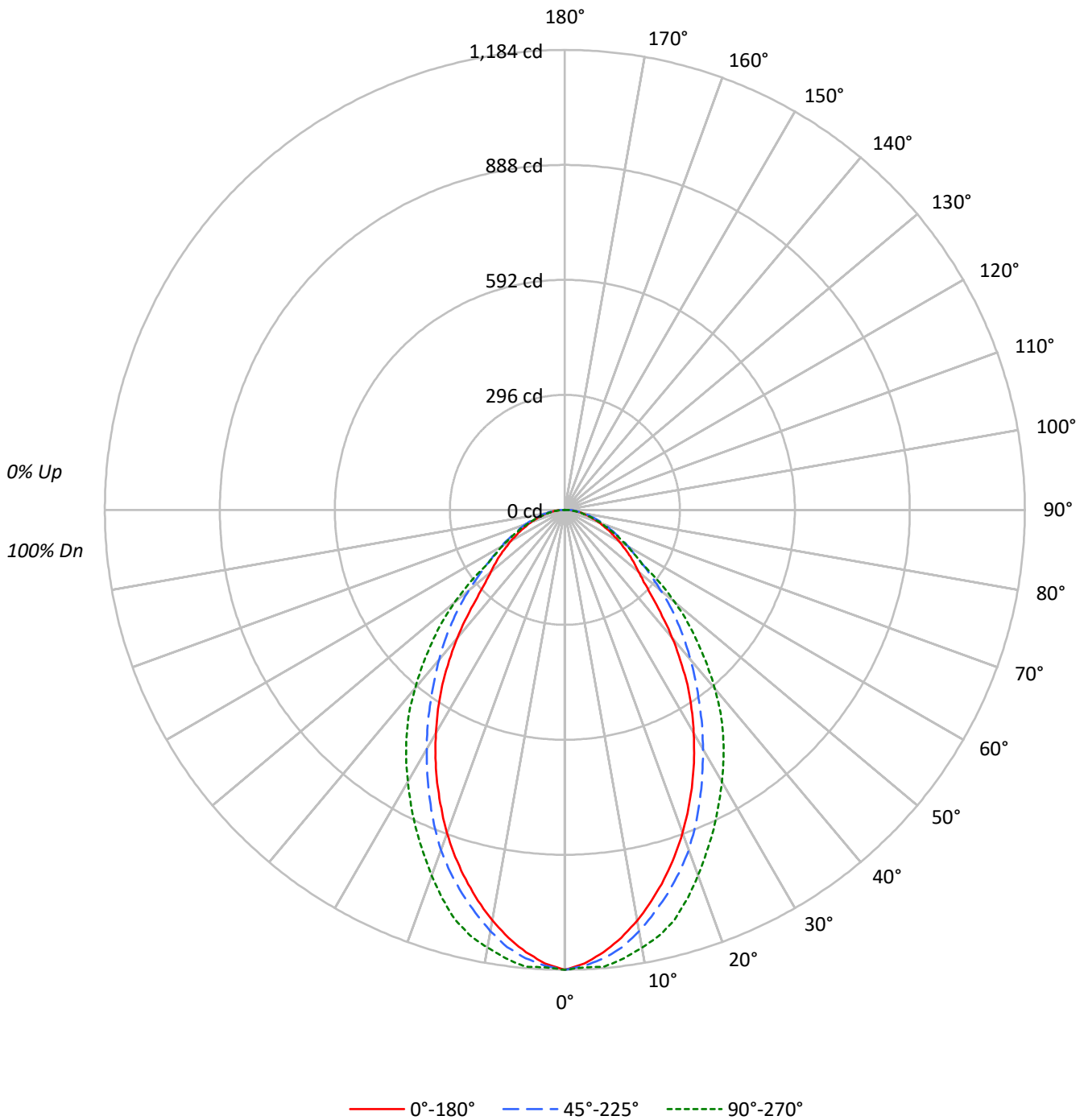
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1930.1 lumens  
Efficiency: N/A  
Efficacy: 46.2 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 1.05 / 1.05  
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 41.8  
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	110	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76				
3	94	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	68	67				
4	88	77	69	64	85	76	69	63	73	67	62	71	66	62	69	65	61	59				
5	81	70	62	56	80	69	62	56	67	60	55	65	59	55	63	58	54	52				
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47				
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43				
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36				
10	59	47	40	35	58	46	40	35	46	39	35	45	39	35	44	38	34	33				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	21846	21846	21846
5°	21175	21459	21859
10°	20109	20633	21445
15°	18823	19529	20867
20°	17398	18299	19674
25°	15812	16744	18454
30°	14133	15137	17225
35°	12389	13563	16003
40°	10365	12114	14443
45°	8306	10731	12625
50°	7125	9247	10599
55°	6511	7863	7824
60°	5920	6953	6813
65°	5392	6226	5947
70°	4947	5703	5287
75°	4627	5262	4627
80°	4325	4867	4059
85°	4319	5124	3493

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 12625 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.3	5.7
10°-20°	289.4	15.0
20°-30°	381.6	19.8
30°-40°	384.3	19.9
40°-50°	312.8	16.2
50°-60°	213.3	11.0
60°-70°	138.4	7.2
70°-80°	76.2	3.9
80°-90°	24.9	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	780.3	40.4
0°-40°	1164.6	60.3
0°-60°	1690.6	87.6
0°-90°	1930.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1930.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1184	1184	1184	1184	1184	
5°	1143	1165	1158	1169	1180	107
15°	985	1011	1022	1064	1092	276
25°	777	802	822	859	906	356
35°	550	578	602	654	710	342
45°	318	358	411	447	484	251
55°	202	223	244	246	243	181
65°	124	146	143	135	136	123
75°	65	80	74	66	65	69
85°	20	27	24	19	16	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1183.9	<i>1183.9</i>	1183.9	1183.9	1183.9
2.5°	<i>1168.7</i>	<i>1187.7</i>	<i>1175.0</i>	<i>1176.3</i>	<i>1178.8</i>
5°	1143.2	<i>1164.8</i>	1158.5	1168.7	1180.1
7.5°	1111.4	<i>1133.0</i>	1135.6	1150.8	1164.8
10°	1073.2	<i>1097.4</i>	1101.2	1124.1	1144.5
12.5°	1031.2	<i>1057.9</i>	1063.0	1096.1	1122.8
15°	985.3	<i>1010.8</i>	1022.3	1064.3	1092.3
17.5°	937.0	<i>961.1</i>	979.0	1017.2	1049.0
20°	886.0	<i>909.0</i>	931.9	966.2	1001.9
22.5°	831.3	<i>856.8</i>	878.4	912.8	953.5
25°	776.6	<i>802.0</i>	822.4	859.3	906.4
27.5°	720.5	<i>746.0</i>	766.4	805.8	856.8
30°	663.3	<i>690.0</i>	710.4	754.9	808.4
32.5°	607.2	<i>634.0</i>	656.9	704.0	760.0
35°	550.0	<i>578.0</i>	602.1	654.3	710.4
37.5°	488.8	<i>520.7</i>	551.2	603.4	658.2
40°	430.3	<i>465.9</i>	502.9	551.2	599.6
42.5°	371.7	<i>411.2</i>	457.0	497.8	542.3
45°	318.3	<i>357.7</i>	411.2	446.8	483.8
47.5°	276.2	<i>309.3</i>	366.6	395.9	429.0
50°	248.2	<i>271.2</i>	322.1	345.0	369.2
52.5°	225.3	<i>244.4</i>	280.1	295.3	308.1
55°	202.4	<i>222.8</i>	244.4	245.7	243.2
57.5°	179.5	<i>202.4</i>	213.9	205.0	210.1
60°	160.4	<i>183.3</i>	188.4	179.5	184.6
62.5°	140.0	<i>165.5</i>	165.5	156.6	159.1
65°	123.5	<i>146.4</i>	142.6	134.9	136.2
67.5°	106.9	<i>129.9</i>	123.5	115.8	115.8
70°	91.7	<i>113.3</i>	105.7	98.0	98.0
72.5°	77.7	<i>95.5</i>	90.4	81.5	80.2
75°	64.9	<i>80.2</i>	73.8	66.2	64.9
77.5°	52.2	<i>64.9</i>	59.8	53.5	50.9
80°	40.7	<i>52.2</i>	45.8	40.7	38.2
82.5°	30.6	<i>39.5</i>	34.4	29.3	26.7
85°	20.4	<i>26.7</i>	24.2	19.1	16.5
87.5°	10.2	<i>17.8</i>	15.3	12.7	10.2
90°	0.0	<i>0.0</i>	0.0	0.0	0.0

(END OF REPORT)