

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: P1061499

Luminaire Tested: S125RDR-S1090D940-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061499  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S1090D940-X4F0-XX-UDD-BVL-W  
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

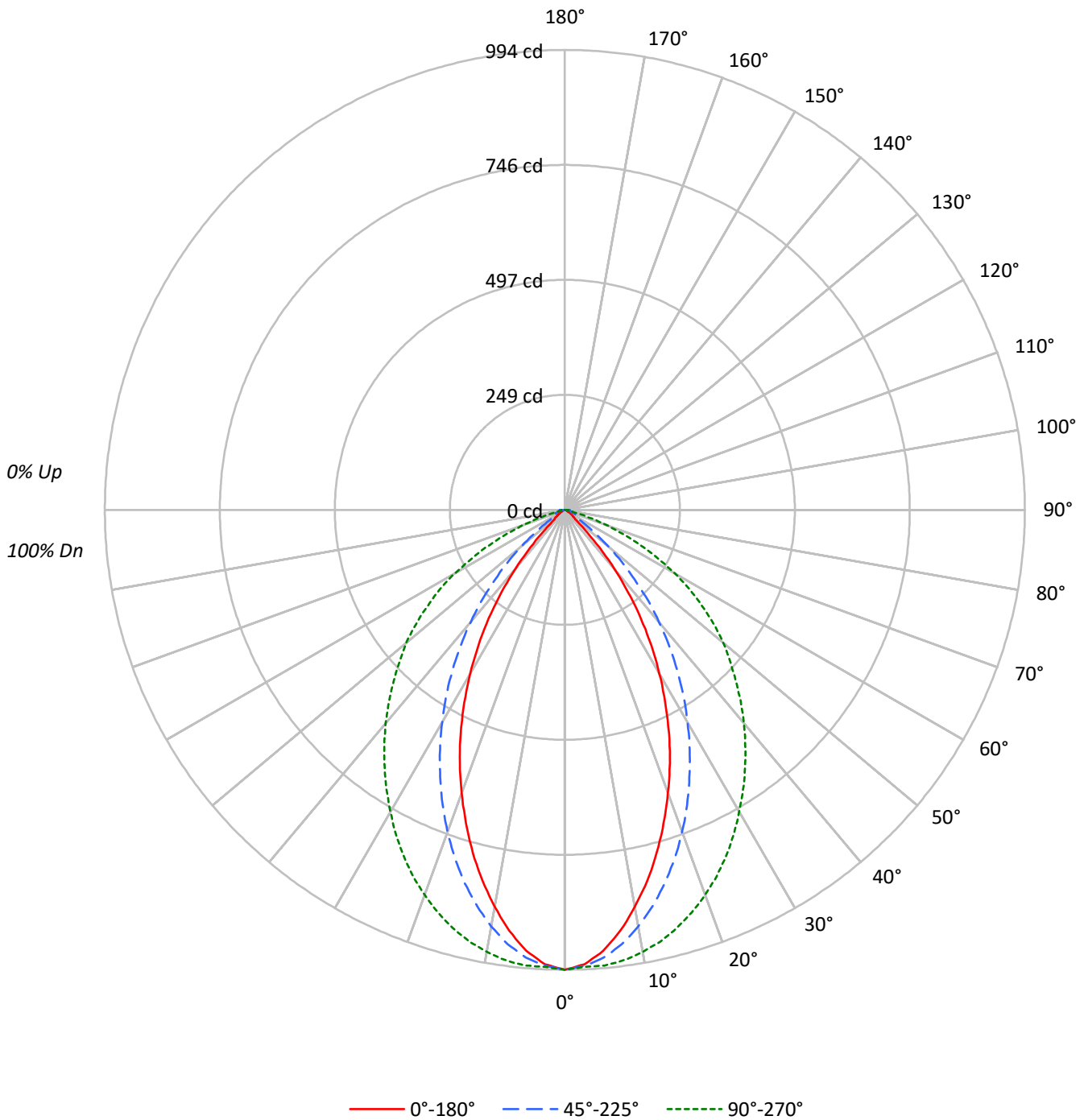
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1286.0 lumens  
Efficiency: N/A  
Efficacy: 36.7 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98  
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 35  
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80				
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72				
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65				
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59				
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53				
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49				
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45				
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41				
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38				

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

	0°	45°	90°
0°	6844	6844	6844
5°	6611	6710	6832
10°	6092	6394	6780
15°	5472	5952	6668
20°	4775	5430	6490
25°	4045	4842	6268
30°	3249	4215	5989
35°	2405	3555	5710
40°	1489	2839	5411
45°	580	2076	5087
50°	272	1301	4791
55°	199	557	4349
60°	136	395	3772
65°	90	414	2933
70°	89	378	1846
75°	117	383	588
80°	174	436	393
85°	261	869	608

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5087 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.2	7.1
10°-20°	236.2	18.4
20°-30°	300.8	23.4
30°-40°	280.0	21.8
40°-50°	192.7	15.0
50°-60°	109.1	8.5
60°-70°	51.5	4.0
70°-80°	16.1	1.3
80°-90°	8.4	0.7
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°	628.2	48.8
0°-40°	908.2	70.6
0°-60°	1210.0	94.1
0°-90°	1286.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1286.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	994	994	994	994	994	
5°	956	970	971	980	988	89
15°	768	793	835	898	936	214
25°	532	567	637	744	825	243
35°	286	326	423	568	679	177
45°	60	95	213	386	522	56
55°	17	19	46	222	362	15
65°	6	7	25	80	180	6
75°	4	10	14	16	22	5
85°	3	9	11	10	8	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	994.0	994.0	994.0	994.0	994.0
2.5°	983.0	992.9	986.3	987.4	988.5
5°	956.5	969.7	970.9	979.7	988.5
7.5°	917.8	934.4	946.6	967.5	981.9
10°	871.4	891.3	914.5	948.8	969.7
12.5°	821.7	844.9	877.0	925.6	955.4
15°	767.6	793.0	835.0	898.0	935.5
17.5°	710.2	738.9	789.7	864.8	912.3
20°	651.7	682.6	741.1	827.3	885.8
22.5°	593.1	625.1	690.3	786.4	857.1
25°	532.4	566.6	637.3	744.4	825.1
27.5°	470.5	505.9	584.3	701.4	790.8
30°	408.7	446.2	530.2	657.2	753.3
32.5°	347.9	385.5	477.1	613.0	716.8
35°	286.1	325.8	423.0	567.7	679.3
37.5°	224.2	267.3	370.0	521.3	640.6
40°	165.7	206.5	315.9	476.0	602.0
42.5°	110.4	150.2	267.3	430.8	562.2
45°	59.6	95.0	213.2	385.5	522.4
47.5°	32.0	50.8	166.8	341.3	483.8
50°	25.4	28.7	121.5	300.4	447.3
52.5°	21.0	23.2	79.5	261.8	405.4
55°	16.6	18.8	46.4	222.0	362.3
57.5°	13.3	15.5	29.8	184.5	320.3
60°	9.9	12.1	28.7	148.0	273.9
62.5°	7.7	8.8	26.5	113.8	225.3
65°	5.5	6.6	25.4	79.5	180.0
67.5°	4.4	5.5	23.2	50.8	134.7
70°	4.4	4.4	18.8	33.1	91.7
72.5°	4.4	7.7	16.6	22.1	55.2
75°	4.4	9.9	14.4	15.5	22.1
77.5°	4.4	11.0	12.1	12.1	12.1
80°	4.4	9.9	11.0	11.0	9.9
82.5°	4.4	8.8	9.9	11.0	8.8
85°	3.3	8.8	11.0	9.9	7.7
87.5°	3.3	8.8	9.9	8.8	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)