

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: P1061560

Luminaire Tested: S125RDR-S1270D930-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061560  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-48)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S1270D930-X4F0-XX-UDD-BVL-B  
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

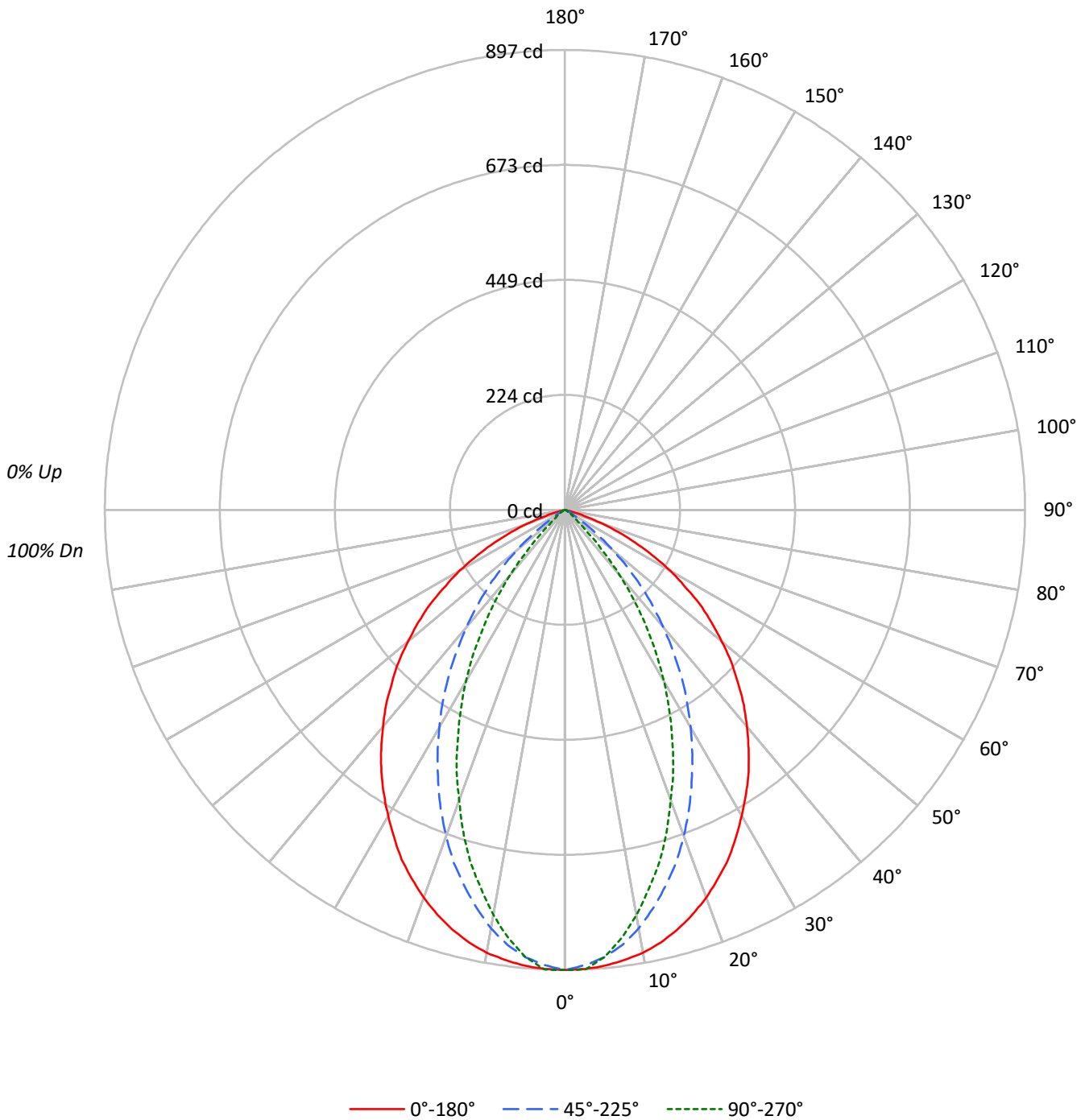
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1159.3 lumens  
Efficiency: N/A  
Efficacy: 27.7 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97  
Luminous Opening: Rectangular (W 0.39' 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																		
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	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	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91																												
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82																												
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73																												
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66																												
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60																												
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54																												
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50																												
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46																												
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42																												
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39																												

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

	0°	45°	90°
0°	6179	6179	6179
5°	6170	6055	6055
10°	6134	5794	5612
15°	6043	5410	5072
20°	5899	4962	4415
25°	5721	4443	3760
30°	5478	3896	3069
35°	5244	3323	2299
40°	4959	2681	1489
45°	4646	2029	646
50°	4274	1294	241
55°	3851	569	170
60°	3261	245	114
65°	2468	155	59
70°	1502	72	24
75°	314	32	32
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4646 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.7	7.1
10°-20°	215.6	18.6
20°-30°	276.9	23.9
30°-40°	260.6	22.5
40°-50°	182.2	15.7
50°-60°	97.3	8.4
60°-70°	38.8	3.3
70°-80°	5.0	0.4
80°-90°	0.0	0.0
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°	575.3	49.6
0°-40°	835.9	72.1
0°-60°	1115.5	96.2
0°-90°	1159.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1159.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	897	897	897	897	897	
5°	893	890	876	878	876	85
15°	848	820	759	723	712	239
25°	753	687	585	521	495	346
35°	624	524	395	305	274	389
45°	477	358	208	101	66	368
55°	321	196	47	17	14	284
65°	152	60	10	5	4	151
75°	12	4	1	1	1	23
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	897.4	897.4	897.4	897.4	897.4
2.5°	896.2	897.4	889.1	896.2	897.4
5°	892.7	890.3	876.1	878.5	876.1
7.5°	885.6	879.6	856.0	847.7	842.9
10°	877.3	864.3	828.7	811.0	802.7
12.5°	864.3	845.3	795.6	768.4	756.5
15°	847.7	820.4	758.9	723.4	711.5
17.5°	827.5	792.0	721.0	677.2	659.4
20°	805.1	757.7	677.2	625.1	602.6
22.5°	779.0	724.5	632.2	574.2	551.7
25°	753.0	686.7	584.8	520.9	494.9
27.5°	721.0	647.6	537.5	468.8	440.4
30°	689.0	608.5	490.1	415.6	386.0
32.5°	657.1	567.1	442.8	359.9	330.3
35°	623.9	524.5	395.4	305.4	273.5
37.5°	588.4	481.8	344.5	253.4	220.2
40°	551.7	440.4	298.3	202.4	165.7
42.5°	516.2	399.0	252.2	152.7	112.5
45°	477.1	357.5	208.4	100.6	66.3
47.5°	440.4	317.3	163.4	58.0	34.3
50°	399.0	275.8	120.8	30.8	22.5
52.5°	359.9	235.6	80.5	20.1	17.8
55°	320.8	196.5	47.4	16.6	14.2
57.5°	275.8	158.6	26.0	13.0	10.7
60°	236.8	124.3	17.8	9.5	8.3
62.5°	191.8	91.2	13.0	7.1	5.9
65°	151.5	60.4	9.5	4.7	3.6
67.5°	112.5	35.5	5.9	2.4	2.4
70°	74.6	18.9	3.6	1.2	1.2
72.5°	39.1	8.3	2.4	1.2	1.2
75°	11.8	3.6	1.2	1.2	1.2
77.5°	0.0	1.2	0.0	0.0	1.2
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)