

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: P1061506

Luminaire Tested: S125RDR-S1090D950-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061506  
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-S1090D950-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: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

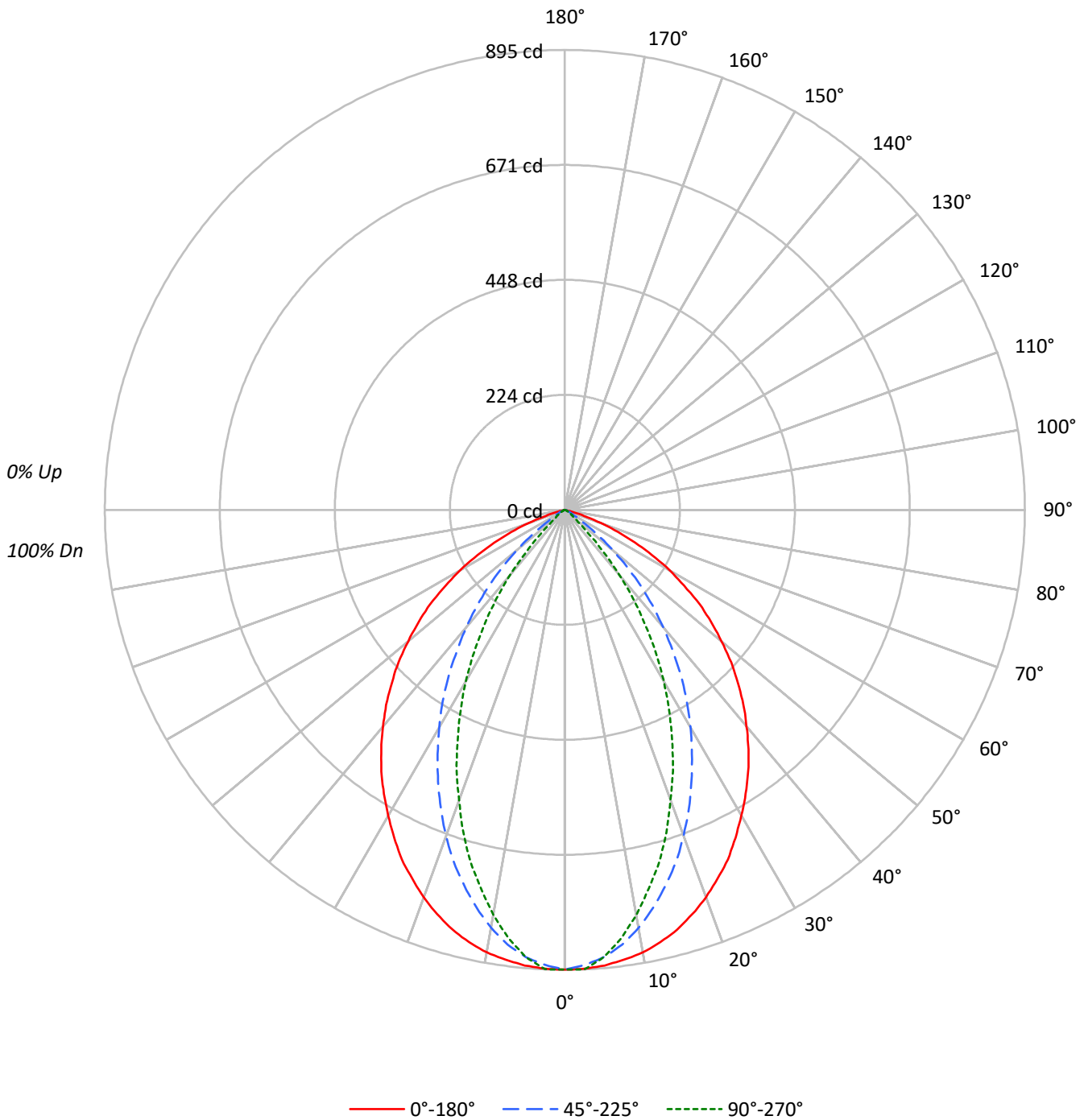
Lumens per Lamp: N/A  
Luminaire Lumens: 1155.9 lumens  
Efficiency: N/A  
Efficacy: 33.0 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97  
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	6160	6160	6160
5°	6151	6037	6037
10°	6115	5777	5595
15°	6025	5393	5057
20°	5881	4947	4402
25°	5703	4430	3748
30°	5462	3885	3059
35°	5229	3314	2292
40°	4944	2674	1486
45°	4632	2022	644
50°	4261	1290	240
55°	3840	567	170
60°	3251	244	114
65°	2462	153	57
70°	1498	70	24
75°	314	32	32
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4632 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.5	7.1
10°-20°	215.0	18.6
20°-30°	276.1	23.9
30°-40°	259.9	22.5
40°-50°	181.7	15.7
50°-60°	97.1	8.4
60°-70°	38.7	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°	573.5	49.6
0°-40°	833.4	72.1
0°-60°	1112.2	96.2
0°-90°	1155.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1155.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	895	895	895	895	895	
5°	890	888	874	876	874	84
15°	845	818	757	721	709	238
25°	751	685	583	519	493	345
35°	622	523	394	304	273	388
45°	476	356	208	100	66	367
55°	320	196	47	16	14	284
65°	151	60	9	5	4	150
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°	894.7	894.7	894.7	894.7	894.7
2.5°	893.6	894.7	886.5	893.6	894.7
5°	890.0	887.7	873.5	875.9	873.5
7.5°	882.9	877.0	853.4	845.2	840.4
10°	874.7	861.7	826.3	808.6	800.3
12.5°	861.7	842.8	793.2	766.1	754.3
15°	845.2	818.0	756.6	721.2	709.4
17.5°	825.1	789.7	718.9	675.2	657.5
20°	802.7	755.5	675.2	623.2	600.8
22.5°	776.7	722.4	630.3	572.5	550.1
25°	750.7	684.6	583.1	519.4	493.4
27.5°	718.9	645.7	535.9	467.4	439.1
30°	687.0	606.7	488.7	414.3	384.8
32.5°	655.1	565.4	441.5	358.8	329.3
35°	622.1	522.9	394.3	304.5	272.7
37.5°	586.7	480.4	343.5	252.6	219.6
40°	550.1	439.1	297.5	201.8	165.3
42.5°	514.7	397.8	251.4	152.3	112.1
45°	475.7	356.5	207.7	100.3	66.1
47.5°	439.1	316.3	162.9	57.8	34.2
50°	397.8	275.0	120.4	30.7	22.4
52.5°	358.8	234.9	80.3	20.1	17.7
55°	319.9	195.9	47.2	16.5	14.2
57.5°	275.0	158.2	26.0	13.0	10.6
60°	236.1	123.9	17.7	9.4	8.3
62.5°	191.2	90.9	13.0	7.1	5.9
65°	151.1	60.2	9.4	4.7	3.5
67.5°	112.1	35.4	5.9	2.4	2.4
70°	74.4	18.9	3.5	1.2	1.2
72.5°	39.0	8.3	2.4	1.2	1.2
75°	11.8	3.5	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)