

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1061911

Luminaire Tested: S125RDRP-H1090D950-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061911
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: S125RDRP-H1090D950-X4F0-XX-UDD-BVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

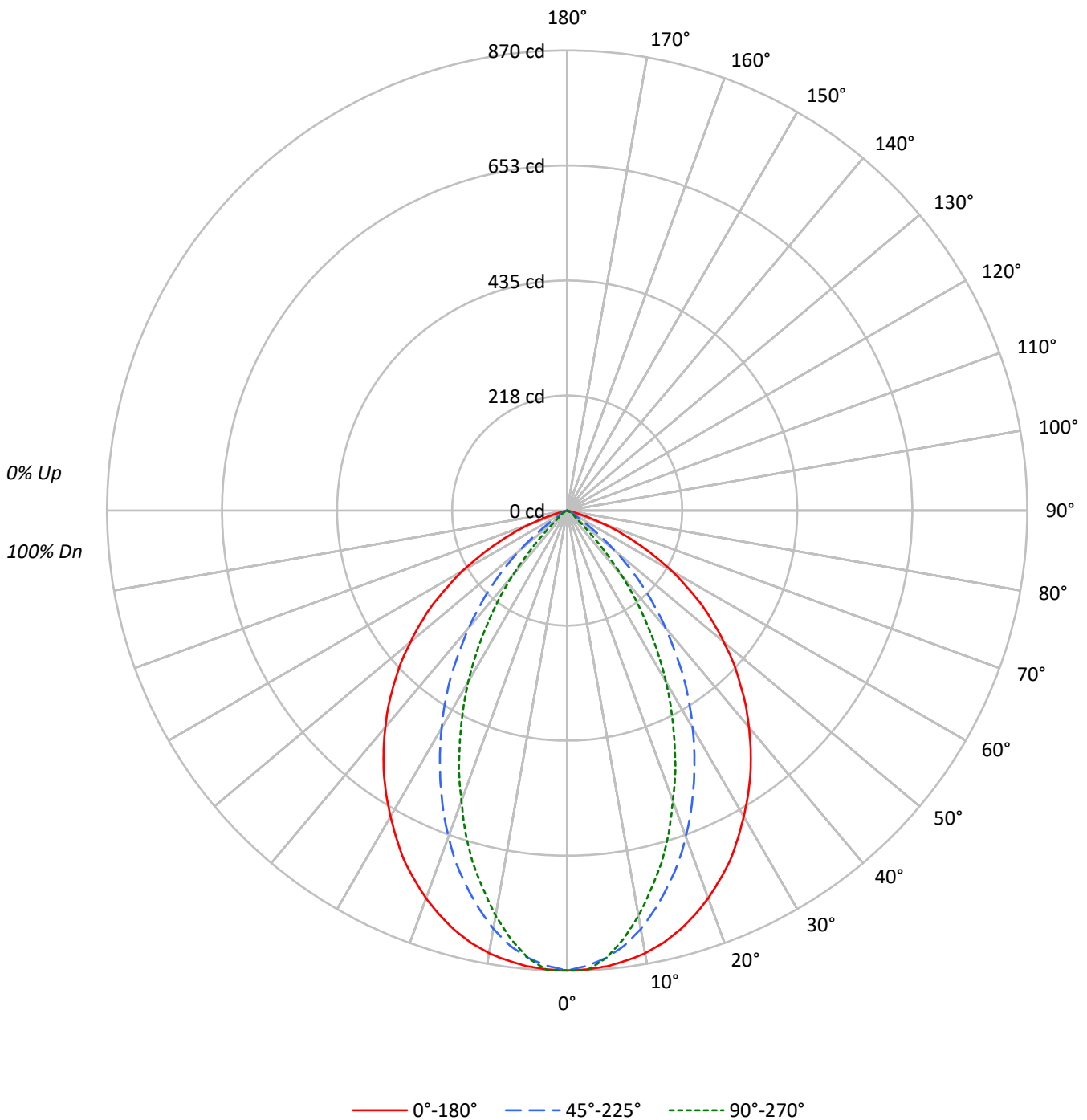
Lumens per Lamp: N/A
Luminaire Lumens: 1123.3 lumens
Efficiency: N/A
Efficacy: 36.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (A_{in}): 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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60					60			
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54					54			
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50					50			
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46					46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5987	5987	5987
5°	5978	5867	5867
10°	5943	5614	5438
15°	5854	5241	4914
20°	5715	4808	4278
25°	5543	4305	3643
30°	5308	3776	2973
35°	5081	3220	2227
40°	4805	2598	1443
45°	4502	1966	625
50°	4141	1253	234
55°	3732	551	166
60°	3159	237	110
65°	2392	150	55
70°	1455	68	22
75°	306	29	29
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4502 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.2	7.1
10°-20°	209.0	18.6
20°-30°	268.3	23.9
30°-40°	252.5	22.5
40°-50°	176.6	15.7
50°-60°	94.3	8.4
60°-70°	37.6	3.3
70°-80°	4.9	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°	557.4	49.6
0°-40°	809.9	72.1
0°-60°	1080.8	96.2
0°-90°	1123.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1123.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	870	870	870	870	870	
5°	865	863	849	851	849	82
15°	821	795	735	701	689	231
25°	730	665	567	505	480	335
35°	604	508	383	296	265	377
45°	462	346	202	98	64	357
55°	311	190	46	16	14	276
65°	147	58	9	5	3	146
75°	12	3	1	1	1	22
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	869.5	869.5	869.5	869.5	869.5
2.5°	868.4	869.5	861.5	868.4	869.5
5°	864.9	862.6	848.9	851.2	848.9
7.5°	858.1	852.3	829.4	821.3	816.8
10°	850.0	837.4	803.0	785.8	777.8
12.5°	837.4	819.0	770.9	744.5	733.0
15°	821.3	795.0	735.3	700.9	689.4
17.5°	801.8	767.4	698.6	656.2	639.0
20°	780.0	734.2	656.2	605.7	583.9
22.5°	754.8	702.0	612.6	556.4	534.6
25°	729.6	665.3	566.7	504.7	479.5
27.5°	698.6	627.5	520.8	454.3	426.7
30°	667.6	589.6	474.9	402.6	374.0
32.5°	636.7	549.5	429.0	348.7	320.0
35°	604.5	508.2	383.1	296.0	265.0
37.5°	570.1	466.9	333.8	245.5	213.4
40°	534.6	426.7	289.1	196.2	160.6
42.5°	500.1	386.6	244.3	148.0	109.0
45°	462.3	346.4	201.9	97.5	64.2
47.5°	426.7	307.4	158.3	56.2	33.3
50°	386.6	267.3	117.0	29.8	21.8
52.5°	348.7	228.3	78.0	19.5	17.2
55°	310.9	190.4	45.9	16.1	13.8
57.5°	267.3	153.7	25.2	12.6	10.3
60°	229.4	120.4	17.2	9.2	8.0
62.5°	185.8	88.3	12.6	6.9	5.7
65°	146.8	58.5	9.2	4.6	3.4
67.5°	109.0	34.4	5.7	2.3	2.3
70°	72.3	18.4	3.4	1.1	1.1
72.5°	37.9	8.0	2.3	1.1	1.1
75°	11.5	3.4	1.1	1.1	1.1
77.5°	0.0	1.1	0.0	0.0	1.1
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



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.16	16.42	15.53	16.74	17.05	0.00	0.00	0.00	0.00	0.00
	3H	15.75	16.86	16.13	17.19	17.55	0.00	0.00	0.00	0.00	0.00
	4H	15.71	16.74	16.11	17.09	17.48	0.00	0.00	0.00	0.00	0.00
	6H	15.62	16.57	16.04	16.94	17.34	0.00	0.00	0.00	0.00	0.00
	8H	15.58	16.47	16.01	16.86	17.27	0.00	0.00	0.00	0.00	0.00
	12H	15.53	16.38	15.97	16.77	17.20	0.00	0.00	0.00	0.00	0.00
4H	2H	14.93	15.97	15.34	16.32	16.70	0.00	0.00	0.00	0.00	0.00
	3H	15.53	16.36	15.94	16.77	17.17	0.00	0.00	0.00	0.00	0.00
	4H	15.48	16.22	15.91	16.64	17.08	0.00	0.00	0.00	0.00	0.00
	6H	15.39	16.03	15.85	16.47	16.94	0.00	0.00	0.00	0.00	0.00
	8H	15.33	15.92	15.80	16.37	16.84	0.00	0.00	0.00	0.00	0.00
	12H	15.28	15.80	15.77	16.28	16.76	0.00	0.00	0.00	0.00	0.00
8H	4H	15.33	15.92	15.80	16.37	16.84	0.00	0.00	0.00	0.00	0.00
	6H	15.22	15.70	15.73	16.20	16.68	0.00	0.00	0.00	0.00	0.00
	8H	15.16	15.59	15.68	16.10	16.60	0.00	0.00	0.00	0.00	0.00
	12H	15.11	15.49	15.62	15.98	16.56	0.00	0.00	0.00	0.00	0.00
12H	4H	15.28	15.80	15.77	16.28	16.76	0.00	0.00	0.00	0.00	0.00
	6H	15.16	15.59	15.68	16.10	16.60	0.00	0.00	0.00	0.00	0.00
	8H	15.11	15.49	15.62	15.98	16.56	0.00	0.00	0.00	0.00	0.00