

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: P1061668

Luminaire Tested: S125RDRP-S375D950-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061668
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-S375D950-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

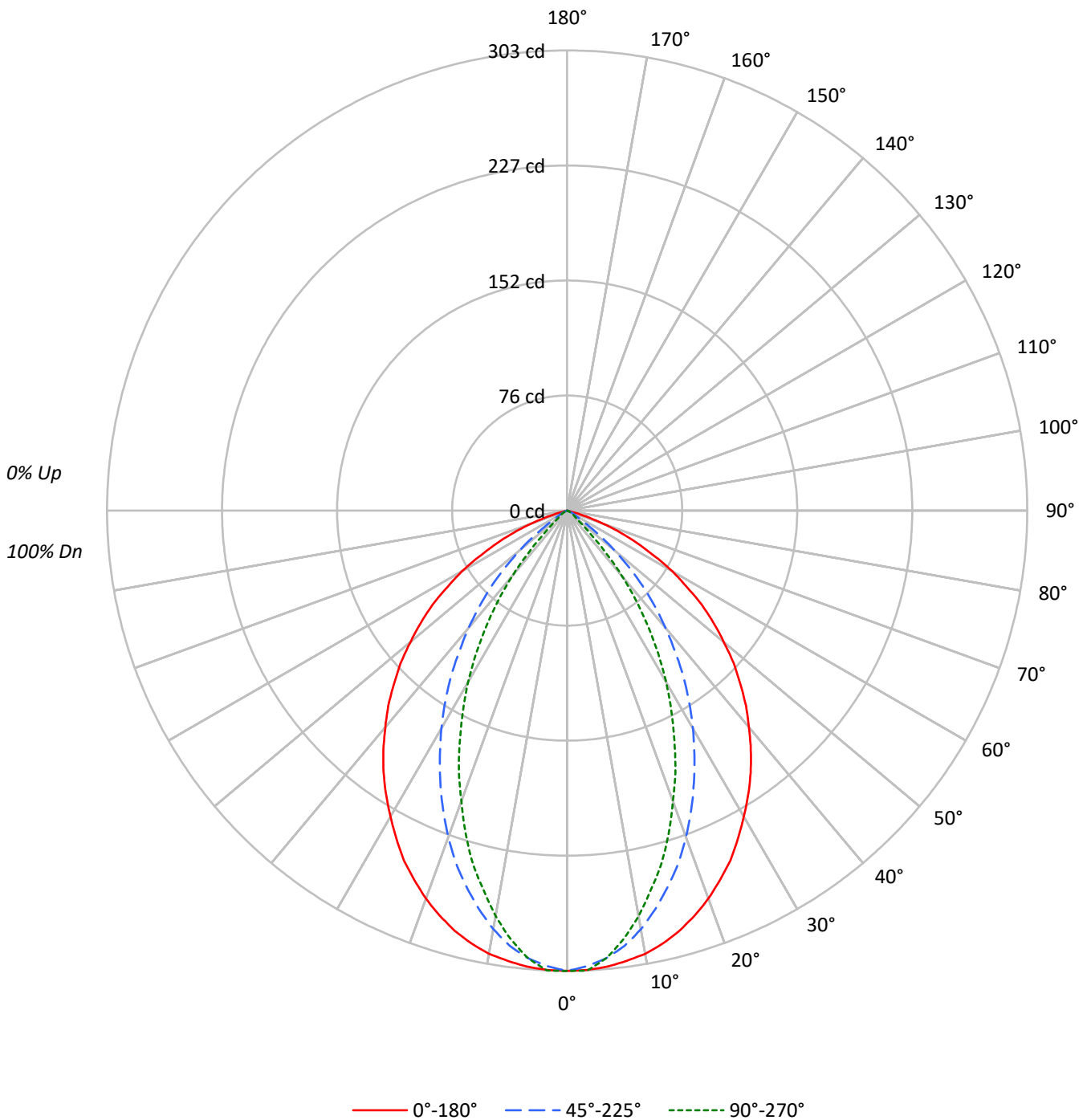
Lumens per Lamp: N/A
Luminaire Lumens: 391.5 lumens
Efficiency: N/A
Efficacy: 31.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
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	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°	2087	2087	2087
5°	2084	2045	2045
10°	2072	1957	1895
15°	2041	1827	1713
20°	1992	1676	1491
25°	1932	1500	1269
30°	1850	1316	1036
35°	1771	1122	777
40°	1674	906	503
45°	1569	685	218
50°	1443	437	81
55°	1300	192	58
60°	1102	83	39
65°	834	52	20
70°	507	24	8
75°	106	11	11
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1569 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.9	7.1
10°-20°	72.8	18.6
20°-30°	93.5	23.9
30°-40°	88.0	22.5
40°-50°	61.5	15.7
50°-60°	32.9	8.4
60°-70°	13.1	3.4
70°-80°	1.7	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°	194.3	49.6
0°-40°	282.3	72.1
0°-60°	376.7	96.2
0°-90°	391.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	391.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	303	303	303	303	303	
5°	302	301	296	297	296	29
15°	286	277	256	244	240	81
25°	254	232	198	176	167	117
35°	211	177	134	103	92	131
45°	161	121	70	34	22	124
55°	108	66	16	6	5	96
65°	51	20	3	2	1	51
75°	4	1	0	0	0	8
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°	303.1	303.1	303.1	303.1	303.1
2.5°	302.7	303.1	300.3	302.7	303.1
5°	301.5	300.7	295.9	296.7	295.9
7.5°	299.1	297.1	289.1	286.3	284.7
10°	296.3	291.9	279.9	273.9	271.1
12.5°	291.9	285.5	268.7	259.5	255.5
15°	286.3	277.1	256.3	244.3	240.3
17.5°	279.5	267.5	243.5	228.7	222.7
20°	271.9	255.9	228.7	211.1	203.5
22.5°	263.1	244.7	213.5	193.9	186.3
25°	254.3	231.9	197.5	175.9	167.1
27.5°	243.5	218.7	181.5	158.3	148.7
30°	232.7	205.5	165.5	140.3	130.3
32.5°	221.9	191.5	149.5	121.5	111.5
35°	210.7	177.1	133.5	103.2	92.4
37.5°	198.7	162.7	116.3	85.6	74.4
40°	186.3	148.7	100.8	68.4	56.0
42.5°	174.3	134.7	85.2	51.6	38.0
45°	161.1	120.7	70.4	34.0	22.4
47.5°	148.7	107.1	55.2	19.6	11.6
50°	134.7	93.2	40.8	10.4	7.6
52.5°	121.5	79.6	27.2	6.8	6.0
55°	108.3	66.4	16.0	5.6	4.8
57.5°	93.2	53.6	8.8	4.4	3.6
60°	80.0	42.0	6.0	3.2	2.8
62.5°	64.8	30.8	4.4	2.4	2.0
65°	51.2	20.4	3.2	1.6	1.2
67.5°	38.0	12.0	2.0	0.8	0.8
70°	25.2	6.4	1.2	0.4	0.4
72.5°	13.2	2.8	0.8	0.4	0.4
75°	4.0	1.2	0.4	0.4	0.4
77.5°	0.0	0.4	0.0	0.0	0.4
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	11.50	12.77	11.87	13.08	13.39	0.00	0.00	0.00	0.00	0.00
	3H	12.09	13.20	12.47	13.53	13.90	0.00	0.00	0.00	0.00	0.00
	4H	12.05	13.08	12.45	13.43	13.82	0.00	0.00	0.00	0.00	0.00
	6H	11.96	12.91	12.38	13.28	13.68	0.00	0.00	0.00	0.00	0.00
	8H	11.92	12.81	12.35	13.20	13.61	0.00	0.00	0.00	0.00	0.00
	12H	11.87	12.73	12.31	13.11	13.54	0.00	0.00	0.00	0.00	0.00
4H	2H	11.28	12.31	11.68	12.66	13.04	0.00	0.00	0.00	0.00	0.00
	3H	11.87	12.70	12.28	13.11	13.51	0.00	0.00	0.00	0.00	0.00
	4H	11.82	12.56	12.25	12.98	13.42	0.00	0.00	0.00	0.00	0.00
	6H	11.73	12.37	12.20	12.81	13.28	0.00	0.00	0.00	0.00	0.00
	8H	11.67	12.26	12.14	12.71	13.18	0.00	0.00	0.00	0.00	0.00
	12H	11.62	12.14	12.11	12.63	13.10	0.00	0.00	0.00	0.00	0.00
8H	4H	11.67	12.26	12.14	12.71	13.18	0.00	0.00	0.00	0.00	0.00
	6H	11.56	12.04	12.07	12.54	13.02	0.00	0.00	0.00	0.00	0.00
	8H	11.50	11.93	12.02	12.45	12.94	0.00	0.00	0.00	0.00	0.00
	12H	11.45	11.83	11.96	12.32	12.90	0.00	0.00	0.00	0.00	0.00
12H	4H	11.62	12.14	12.11	12.63	13.10	0.00	0.00	0.00	0.00	0.00
	6H	11.50	11.93	12.02	12.45	12.94	0.00	0.00	0.00	0.00	0.00
	8H	11.45	11.83	11.96	12.32	12.90	0.00	0.00	0.00	0.00	0.00