

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: P1057864

Luminaire Tested: S122RDRP-S1005D950-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1057864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-20)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDRP-S1005D950-X4F0-XX-UDD-SVL-B
Description: DEFINE 2 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

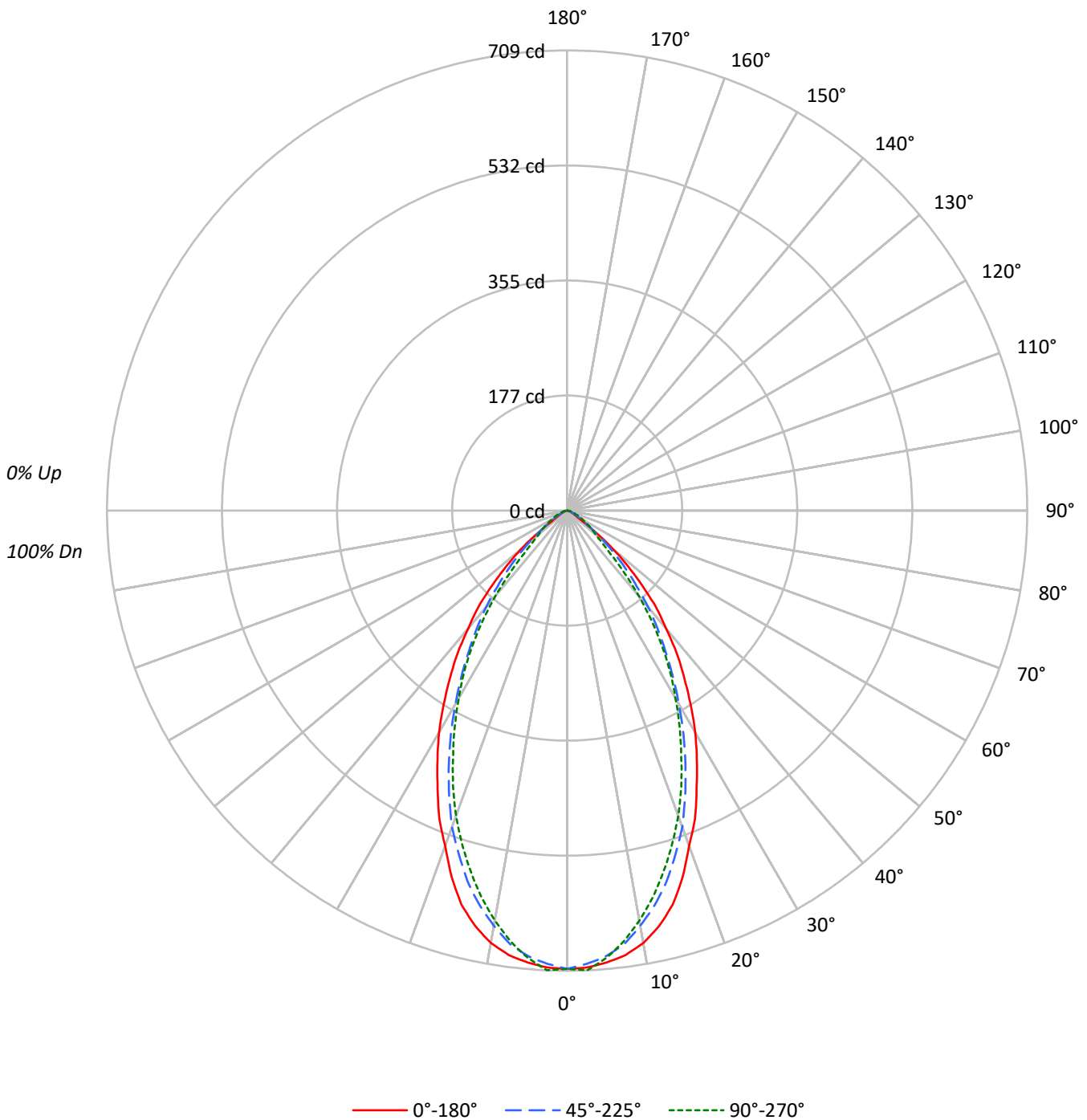
Lumens per Lamp: N/A
Luminaire Lumens: 759.4 lumens
Efficiency: N/A
Efficacy: 18.2 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.85 / 0.91
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64
6	83	73	67	62	82	72	66	62	71	65	61	69	64	61	68	64	60	59
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47
10	67	56	50	45	66	56	49	45	55	49	45	54	49	45	53	48	45	44

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13029	13029	13029
5°	12948	12766	12818
10°	12676	12174	12016
15°	12008	11307	10984
20°	10792	10184	9824
25°	9612	8781	8466
30°	8408	7328	7117
35°	7080	5936	5746
40°	5704	4685	4141
45°	4267	3385	2463
50°	2670	2185	1619
55°	907	1177	1316
60°	520	727	1041
65°	371	493	799
70°	302	378	610
75°	200	299	499
80°	149	298	446
85°	0	0	296

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4267 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.1	8.6
10°-20°	166.6	21.9
20°-30°	200.6	26.4
30°-40°	171.4	22.6
40°-50°	100.4	13.2
50°-60°	36.4	4.8
60°-70°	12.9	1.7
70°-80°	5.1	0.7
80°-90°	0.9	0.1
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°	432.3	56.9
0°-40°	603.7	79.5
0°-60°	740.4	97.5
0°-90°	759.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	759.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	706	706	706	706	706	
5°	699	700	689	692	692	66
15°	629	619	592	581	575	175
25°	472	452	431	424	416	217
35°	314	290	264	261	255	196
45°	164	147	130	108	94	126
55°	28	40	37	38	41	35
65°	8	10	11	16	18	9
75°	3	4	4	6	7	4
85°	0	0	0	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	706.1	706.1	706.1	706.1	706.1
2.5°	704.7	706.1	699.0	706.1	708.9
5°	699.0	700.4	689.2	692.0	692.0
7.5°	690.6	689.2	673.7	670.9	669.4
10°	676.5	672.3	649.7	645.5	641.3
12.5°	655.4	646.9	622.9	615.9	610.3
15°	628.6	618.7	591.9	580.7	575.0
17.5°	591.9	580.7	555.3	544.0	538.4
20°	549.6	538.4	518.6	506.0	500.3
22.5°	514.4	496.1	475.0	466.5	459.4
25°	472.1	452.4	431.3	424.2	415.8
27.5°	432.7	408.7	387.6	381.9	374.9
30°	394.6	369.3	343.9	343.9	334.0
32.5°	353.7	329.8	303.0	301.6	296.0
35°	314.3	290.3	263.5	260.7	255.1
37.5°	277.6	253.7	228.3	219.9	212.8
40°	236.8	215.6	194.5	180.4	171.9
42.5°	204.4	180.4	159.3	142.3	131.1
45°	163.5	146.6	129.7	108.5	94.4
47.5°	126.8	115.6	101.5	77.5	70.5
50°	93.0	87.4	76.1	57.8	56.4
52.5°	59.2	62.0	55.0	45.1	49.3
55°	28.2	39.5	36.6	38.1	40.9
57.5°	18.3	19.7	26.8	31.0	33.8
60°	14.1	14.1	19.7	25.4	28.2
62.5°	11.3	11.3	15.5	21.1	22.5
65°	8.5	9.9	11.3	15.5	18.3
67.5°	7.0	7.0	8.5	12.7	14.1
70°	5.6	5.6	7.0	9.9	11.3
72.5°	4.2	4.2	5.6	8.5	8.5
75°	2.8	4.2	4.2	5.6	7.0
77.5°	2.8	2.8	2.8	4.2	5.6
80°	1.4	1.4	2.8	2.8	4.2
82.5°	1.4	1.4	1.4	1.4	2.8
85°	0.0	0.0	0.0	1.4	1.4
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	4.79	5.96	5.16	6.27	6.58	8.20	9.36	8.56	9.67	9.99
	3H	5.31	6.33	5.69	6.66	7.03	8.93	9.95	9.31	10.28	10.65
	4H	5.44	6.39	5.84	6.74	7.13	9.14	10.09	9.55	10.44	10.83
	6H	5.51	6.38	5.93	6.75	7.15	9.29	10.16	9.71	10.53	10.93
	8H	5.52	6.33	5.95	6.73	7.13	9.32	10.14	9.76	10.53	10.94
	12H	5.48	6.26	5.92	6.65	7.08	9.32	10.10	9.76	10.49	10.92
4H	2H	5.11	6.05	5.51	6.41	6.79	8.17	9.11	8.57	9.47	9.85
	3H	5.76	6.52	6.17	6.93	7.34	9.04	9.81	9.46	10.22	10.62
	4H	5.99	6.68	6.43	7.10	7.55	9.32	10.01	9.76	10.43	10.87
	6H	6.11	6.70	6.58	7.15	7.62	9.54	10.13	10.01	10.58	11.05
	8H	6.13	6.67	6.60	7.12	7.59	9.59	10.13	10.06	10.58	11.06
	12H	6.09	6.57	6.58	7.06	7.53	9.61	10.08	10.10	10.57	11.05
8H	4H	6.10	6.65	6.57	7.09	7.57	9.25	9.80	9.72	10.25	10.72
	6H	6.26	6.71	6.77	7.21	7.69	9.51	9.95	10.01	10.45	10.93
	8H	6.31	6.70	6.84	7.22	7.72	9.57	9.96	10.09	10.48	10.98
	12H	6.29	6.63	6.80	7.13	7.71	9.63	9.97	10.14	10.47	11.05
12H	4H	6.09	6.56	6.57	7.05	7.52	9.20	9.68	9.69	10.17	10.64
	6H	6.26	6.66	6.79	7.18	7.67	9.46	9.85	9.98	10.37	10.87
	8H	6.33	6.68	6.85	7.18	7.75	9.54	9.89	10.06	10.39	10.96