

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: P1061590

Luminaire Tested: S125RDRP-S1270D950-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1270D950-X4F0-XX-UDD-SVL-B
Description: DEFINE 5 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

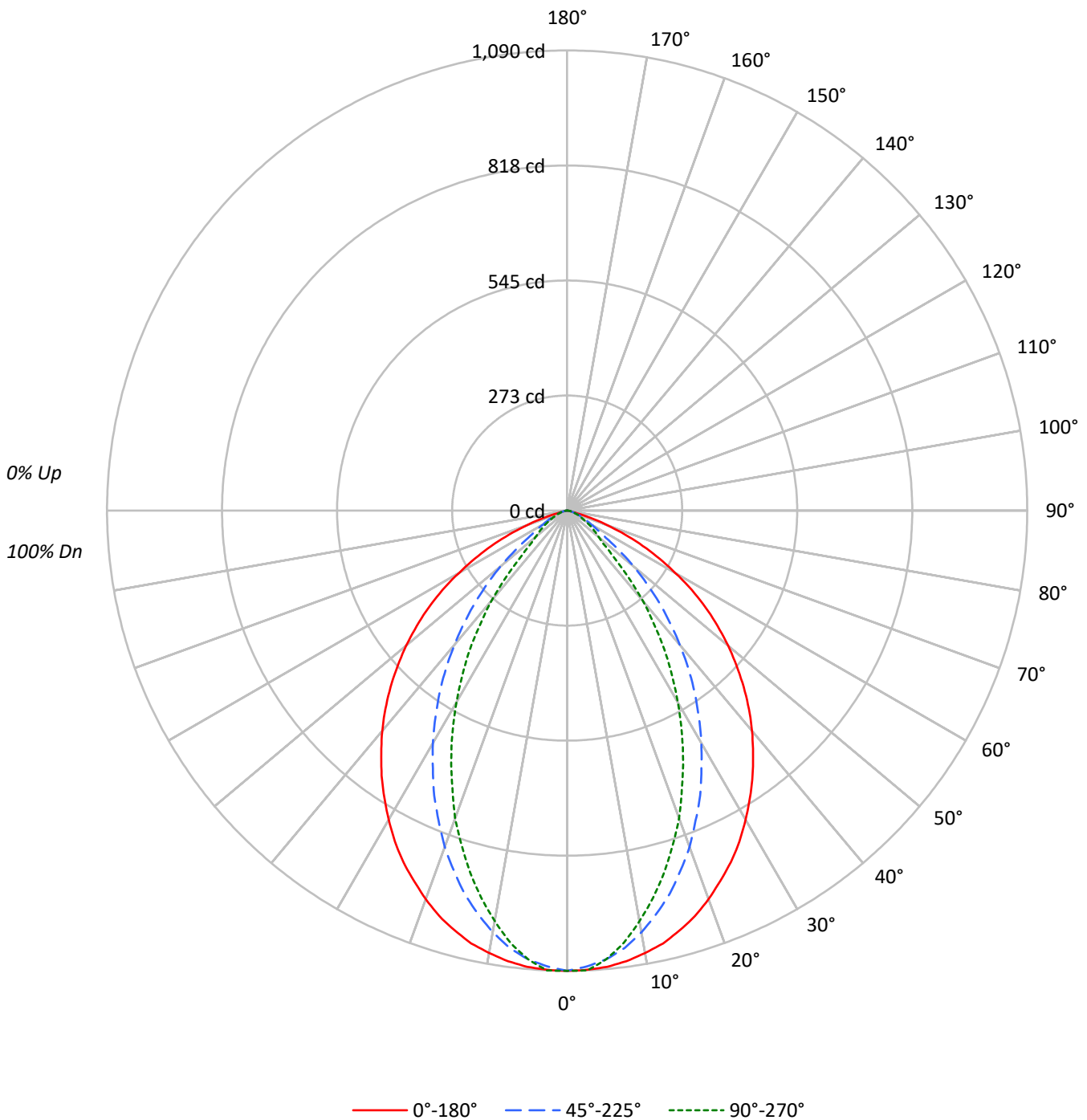
Lumens per Lamp: N/A
Luminaire Lumens: 1576.8 lumens
Efficiency: N/A
Efficacy: 37.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (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	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	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90																												
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80																												
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71																												
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63																												
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57																												
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52																												
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47																												
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43																												
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39																												
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7507	7507	7507
5°	7498	7373	7373
10°	7439	7090	6906
15°	7338	6695	6330
20°	7177	6213	5684
25°	6978	5662	4937
30°	6719	5056	4164
35°	6439	4425	3377
40°	6126	3735	2503
45°	5761	2995	1511
50°	5328	2196	1039
55°	4806	1347	864
60°	4083	916	687
65°	3227	699	541
70°	2035	501	447
75°	662	370	370
80°	218	274	329
85°	111	221	221

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5761 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.8	6.4
10°-20°	266.3	16.9
20°-30°	350.3	22.2
30°-40°	344.2	21.8
40°-50°	260.4	16.5
50°-60°	157.9	10.0
60°-70°	74.5	4.7
70°-80°	19.5	1.2
80°-90°	2.9	0.2
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°	717.4	45.5
0°-40°	1061.6	67.3
0°-60°	1479.9	93.9
0°-90°	1576.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1576.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1090	1090	1090	1090	1090	
5°	1085	1082	1067	1068	1067	103
15°	1029	1002	939	903	888	290
25°	918	849	745	676	650	422
35°	766	664	526	434	402	478
45°	592	466	308	195	155	456
55°	400	274	112	76	72	356
65°	198	101	43	36	33	195
75°	25	17	14	14	14	39
85°	1	1	3	3	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1090.3	1090.3	1090.3	1090.3	1090.3
2.5°	1088.9	1088.9	1080.6	1090.3	1090.3
5°	1084.8	1082.0	1066.8	1068.1	1066.8
7.5°	1076.5	1070.9	1044.6	1037.7	1032.1
10°	1064.0	1052.9	1014.1	997.5	987.8
12.5°	1050.1	1030.7	978.1	954.5	939.3
15°	1029.4	1001.6	939.3	903.3	888.0
17.5°	1007.2	967.0	893.6	850.6	831.2
20°	979.5	932.4	847.9	795.2	775.8
22.5°	949.0	893.6	795.2	737.0	710.7
25°	918.5	849.3	745.3	676.1	649.8
27.5°	883.9	804.9	688.5	616.5	587.4
30°	845.1	760.6	635.9	561.1	523.7
32.5°	806.3	714.9	580.5	498.7	461.3
35°	766.1	663.6	526.5	433.6	401.8
37.5°	723.2	615.1	471.0	374.1	336.7
40°	681.6	566.6	415.6	313.1	278.5
42.5°	637.3	518.1	360.2	253.5	214.7
45°	591.6	465.5	307.6	195.3	155.2
47.5°	544.5	418.4	254.9	144.1	116.4
50°	497.4	368.5	205.0	106.7	97.0
52.5°	448.9	320.0	155.2	88.7	84.5
55°	400.4	274.3	112.2	76.2	72.0
57.5°	350.5	224.4	84.5	65.1	61.0
60°	296.5	180.1	66.5	54.0	49.9
62.5°	246.6	141.3	54.0	44.3	41.6
65°	198.1	101.1	42.9	36.0	33.2
67.5°	148.2	67.9	33.2	27.7	27.7
70°	101.1	44.3	24.9	22.2	22.2
72.5°	61.0	26.3	18.0	18.0	18.0
75°	24.9	16.6	13.9	13.9	13.9
77.5°	8.3	9.7	9.7	11.1	11.1
80°	5.5	5.5	6.9	8.3	8.3
82.5°	2.8	4.2	4.2	5.5	5.5
85°	1.4	1.4	2.8	2.8	2.8
87.5°	0.0	0.0	0.0	1.4	1.4
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	16.33	17.66	16.70	17.98	18.29	6.99	8.32	7.35	8.63	8.95
	3H	17.04	18.22	17.42	18.55	18.91	7.77	8.95	8.15	9.28	9.64
	4H	17.05	18.15	17.46	18.50	18.88	8.02	9.12	8.42	9.47	9.85
	6H	16.98	17.99	17.40	18.36	18.75	8.20	9.20	8.61	9.57	9.97
	8H	16.94	17.90	17.37	18.29	18.69	8.24	9.19	8.67	9.59	9.99
	12H	16.90	17.81	17.33	18.19	18.63	8.25	9.16	8.68	9.54	9.97
4H	2H	16.16	17.26	16.57	17.61	17.99	7.47	8.57	7.88	8.92	9.30
	3H	16.91	17.80	17.32	18.20	18.61	8.38	9.27	8.80	9.68	10.08
	4H	16.93	17.72	17.36	18.14	18.58	8.70	9.49	9.13	9.91	10.35
	6H	16.87	17.55	17.33	18.00	18.46	8.96	9.64	9.42	10.09	10.55
	8H	16.81	17.45	17.28	17.90	18.37	9.02	9.66	9.49	10.11	10.58
	12H	16.77	17.33	17.26	17.82	18.29	9.05	9.61	9.53	10.09	10.57
8H	4H	16.81	17.45	17.28	17.89	18.37	8.81	9.45	9.28	9.90	10.37
	6H	16.73	17.25	17.24	17.75	18.23	9.13	9.65	9.63	10.14	10.63
	8H	16.68	17.15	17.20	17.66	18.15	9.23	9.70	9.75	10.21	10.71
	12H	16.64	17.05	17.16	17.55	18.12	9.29	9.71	9.81	10.20	10.77
12H	4H	16.77	17.33	17.25	17.81	18.29	8.78	9.34	9.27	9.83	10.30
	6H	16.68	17.14	17.20	17.66	18.15	9.10	9.57	9.62	10.08	10.57
	8H	16.64	17.05	17.16	17.55	18.12	9.24	9.65	9.75	10.14	10.71