

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: P1061995

Luminaire Tested: S125RDRP-H1270D950-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061995
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-H1270D950-X4F0-XX-UDD-SVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

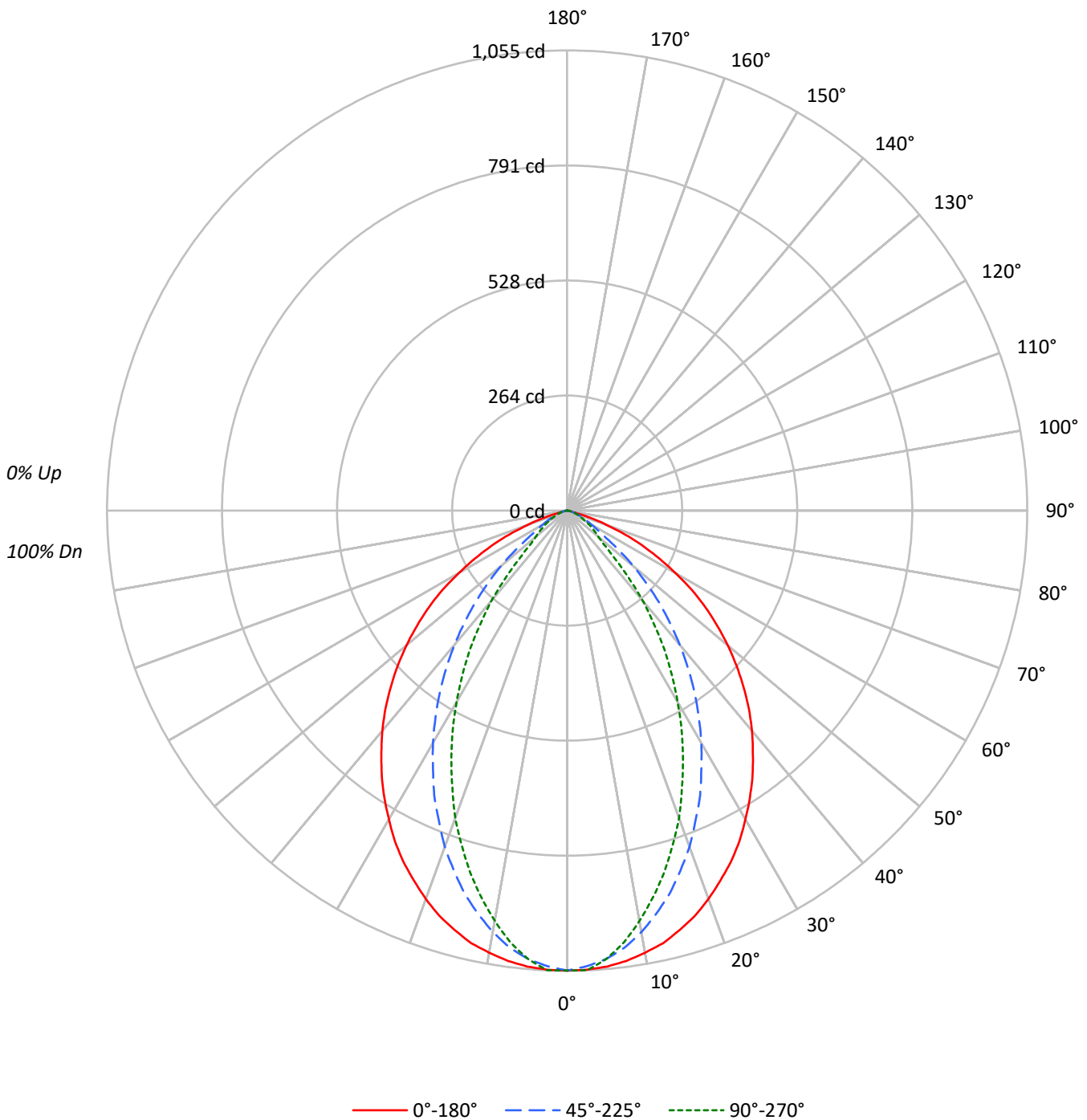
Lumens per Lamp: N/A
Luminaire Lumens: 1525.3 lumens
Efficiency: N/A
Efficacy: 41.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
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	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°	7262	7262	7262
5°	7252	7132	7132
10°	7196	6859	6680
15°	7097	6477	6123
20°	6942	6010	5499
25°	6750	5477	4775
30°	6499	4890	4028
35°	6229	4281	3266
40°	5927	3613	2421
45°	5572	2897	1462
50°	5153	2124	1005
55°	4649	1304	837
60°	3949	885	664
65°	3122	676	525
70°	1969	485	431
75°	641	356	356
80°	214	266	317
85°	103	213	213

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5572 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.6	6.4
10°-20°	257.6	16.9
20°-30°	338.8	22.2
30°-40°	333.0	21.8
40°-50°	251.9	16.5
50°-60°	152.7	10.0
60°-70°	72.1	4.7
70°-80°	18.8	1.2
80°-90°	2.8	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°	694.0	45.5
0°-40°	1027.0	67.3
0°-60°	1431.6	93.9
0°-90°	1525.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1525.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1055	1055	1055	1055	1055	
5°	1049	1047	1032	1033	1032	100
15°	996	969	909	874	859	280
25°	888	822	721	654	628	408
35°	741	642	509	420	389	463
45°	572	450	298	189	150	441
55°	387	265	109	74	70	345
65°	192	98	42	35	32	189
75°	24	16	13	13	13	37
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°	1054.7	1054.7	1054.7	1054.7	1054.7
2.5°	1053.4	1053.4	1045.3	1054.7	1054.7
5°	1049.3	1046.7	1031.9	1033.3	1031.9
7.5°	1041.3	1035.9	1010.5	1003.8	998.4
10°	1029.2	1018.5	981.0	964.9	955.5
12.5°	1015.8	997.1	946.1	923.4	908.6
15°	995.7	968.9	908.6	873.8	859.0
17.5°	974.3	935.4	864.4	822.8	804.1
20°	947.5	901.9	820.2	769.2	750.5
22.5°	918.0	864.4	769.2	713.0	687.5
25°	888.5	821.5	721.0	654.0	628.5
27.5°	855.0	778.6	666.1	596.4	568.2
30°	817.5	735.7	615.1	542.8	506.6
32.5°	780.0	691.5	561.5	482.5	446.3
35°	741.1	641.9	509.3	419.5	388.6
37.5°	699.6	595.0	455.6	361.8	325.7
40°	659.4	548.1	402.0	302.9	269.4
42.5°	616.5	501.2	348.4	245.2	207.7
45°	572.2	450.3	297.5	189.0	150.1
47.5°	526.7	404.7	246.6	139.4	112.6
50°	481.1	356.5	198.3	103.2	93.8
52.5°	434.2	309.6	150.1	85.8	81.7
55°	387.3	265.3	108.6	73.7	69.7
57.5°	339.1	217.1	81.7	63.0	59.0
60°	286.8	174.2	64.3	52.3	48.2
62.5°	238.5	136.7	52.3	42.9	40.2
65°	191.6	97.8	41.5	34.8	32.2
67.5°	143.4	65.7	32.2	26.8	26.8
70°	97.8	42.9	24.1	21.4	21.4
72.5°	59.0	25.5	17.4	17.4	17.4
75°	24.1	16.1	13.4	13.4	13.4
77.5°	8.0	9.4	9.4	10.7	10.7
80°	5.4	5.4	6.7	8.0	8.0
82.5°	2.7	4.0	4.0	5.4	5.4
85°	1.3	1.3	2.7	2.7	2.7
87.5°	0.0	0.0	0.0	1.3	1.3
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	16.22	17.55	16.58	17.86	18.18	6.88	8.21	7.24	8.52	8.83
	3H	16.92	18.10	17.30	18.43	18.80	7.65	8.83	8.03	9.16	9.53
	4H	16.94	18.04	17.34	18.39	18.77	7.90	9.00	8.31	9.35	9.73
	6H	16.87	17.88	17.29	18.25	18.64	8.08	9.09	8.50	9.46	9.85
	8H	16.83	17.78	17.26	18.17	18.58	8.13	9.08	8.56	9.47	9.87
	12H	16.79	17.70	17.22	18.08	18.51	8.13	9.04	8.57	9.43	9.86
4H	2H	16.05	17.14	16.45	17.50	17.88	7.36	8.46	7.76	8.81	9.19
	3H	16.79	17.69	17.21	18.09	18.49	8.27	9.16	8.68	9.56	9.97
	4H	16.81	17.61	17.25	18.03	18.47	8.58	9.37	9.01	9.79	10.24
	6H	16.75	17.44	17.21	17.88	18.35	8.84	9.52	9.30	9.97	10.43
	8H	16.70	17.34	17.17	17.79	18.26	8.90	9.54	9.37	9.99	10.46
	12H	16.66	17.22	17.14	17.70	18.18	8.93	9.49	9.42	9.98	10.45
8H	4H	16.70	17.33	17.16	17.78	18.25	8.69	9.33	9.16	9.78	10.25
	6H	16.62	17.14	17.12	17.64	18.12	9.01	9.53	9.51	10.02	10.51
	8H	16.57	17.03	17.09	17.55	18.04	9.11	9.58	9.64	10.10	10.59
	12H	16.53	16.94	17.04	17.43	18.00	9.18	9.59	9.69	10.08	10.66
12H	4H	16.65	17.21	17.14	17.70	18.17	8.66	9.23	9.15	9.71	10.18
	6H	16.56	17.03	17.08	17.54	18.04	8.98	9.45	9.50	9.96	10.45
	8H	16.53	16.94	17.04	17.43	18.01	9.12	9.53	9.64	10.03	10.60