

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: P1061977

Luminaire Tested: S125RDRP-H1270D935-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061977
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-H1270D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

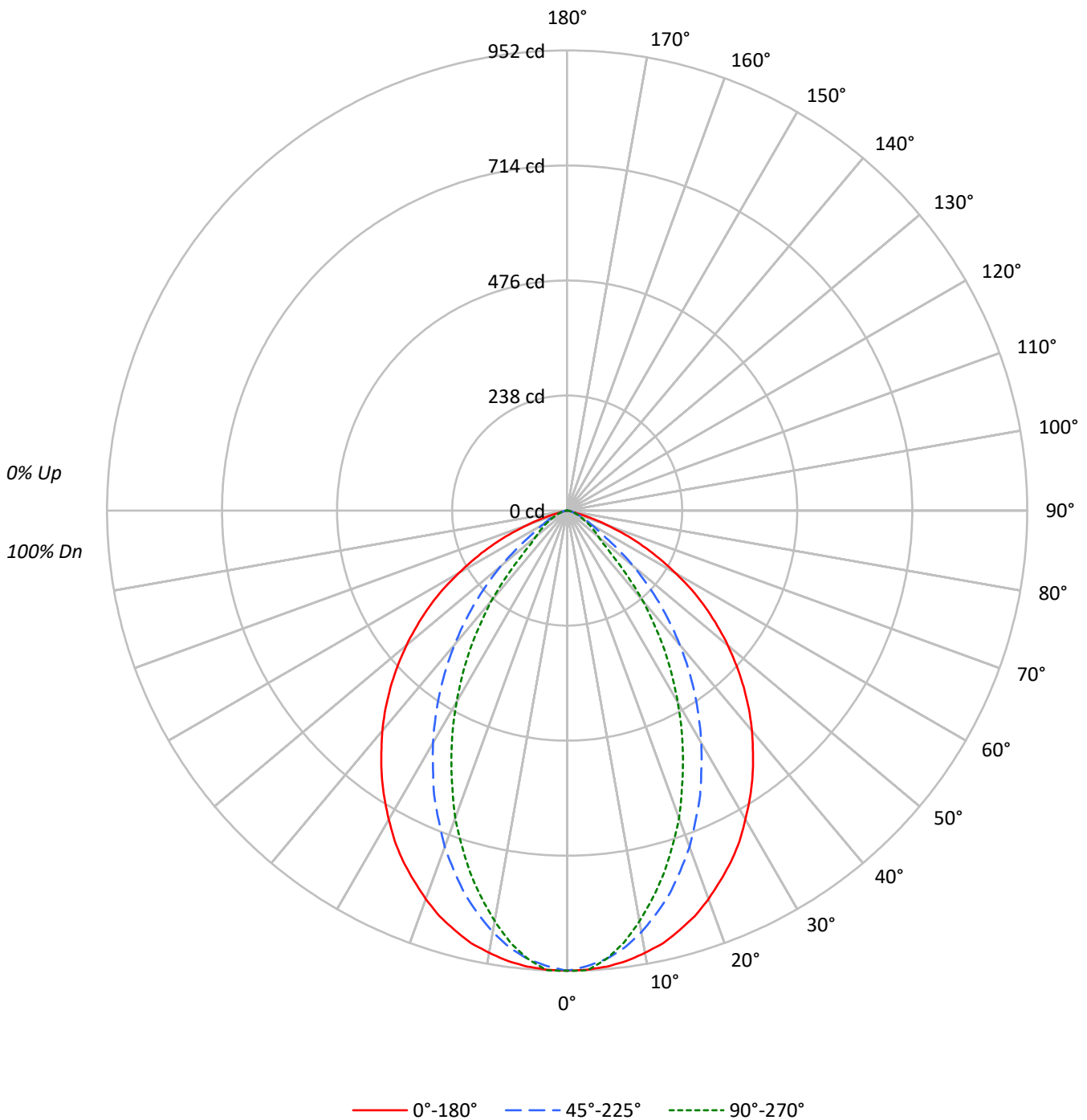
Lumens per Lamp: N/A
Luminaire Lumens: 1376.6 lumens
Efficiency: N/A
Efficacy: 37.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
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	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°	6554	6554	6554
5°	6545	6437	6437
10°	6494	6190	6029
15°	6406	5845	5526
20°	6265	5424	4963
25°	6092	4943	4310
30°	5866	4414	3635
35°	5622	3863	2949
40°	5349	3261	2185
45°	5029	2614	1319
50°	4651	1917	907
55°	4195	1176	755
60°	3564	800	599
65°	2818	611	472
70°	1778	439	391
75°	580	322	322
80°	190	238	289
85°	95	190	190

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5029 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	6.4
10°-20°	232.5	16.9
20°-30°	305.8	22.2
30°-40°	300.5	21.8
40°-50°	227.3	16.5
50°-60°	137.8	10.0
60°-70°	65.1	4.7
70°-80°	17.0	1.2
80°-90°	2.5	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°	626.3	45.5
0°-40°	926.8	67.3
0°-60°	1292.0	93.9
0°-90°	1376.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1376.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	952	952	952	952	952	
5°	947	945	931	932	931	90
15°	899	874	820	789	775	253
25°	802	741	651	590	567	369
35°	669	579	460	379	351	418
45°	516	406	268	170	136	398
55°	350	240	98	66	63	311
65°	173	88	38	31	29	170
75°	22	14	12	12	12	34
85°	1	1	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	951.9	951.9	951.9	951.9	951.9
2.5°	950.7	950.7	943.4	951.9	951.9
5°	947.0	944.6	931.3	932.5	931.3
7.5°	939.8	934.9	912.0	905.9	901.1
10°	928.9	919.2	885.4	870.8	862.4
12.5°	916.8	899.9	853.9	833.3	820.0
15°	898.7	874.5	820.0	788.6	775.3
17.5°	879.3	844.2	780.1	742.6	725.7
20°	855.1	814.0	740.2	694.3	677.3
22.5°	828.5	780.1	694.3	643.5	620.5
25°	801.9	741.4	650.7	590.2	567.3
27.5°	771.7	702.7	601.1	538.2	512.8
30°	737.8	664.0	555.2	489.8	457.2
32.5°	703.9	624.1	506.8	435.4	402.8
35°	668.9	579.4	459.6	378.6	350.8
37.5°	631.4	537.0	411.2	326.6	293.9
40°	595.1	494.7	362.8	273.3	243.1
42.5°	556.4	452.4	314.5	221.3	187.5
45°	516.5	406.4	268.5	170.5	135.5
47.5°	475.3	365.3	222.5	125.8	101.6
50°	434.2	321.7	179.0	93.1	84.7
52.5°	391.9	279.4	135.5	77.4	73.8
55°	349.5	239.5	98.0	66.5	62.9
57.5°	306.0	195.9	73.8	56.8	53.2
60°	258.8	157.2	58.1	47.2	43.5
62.5°	215.3	123.4	47.2	38.7	36.3
65°	173.0	88.3	37.5	31.4	29.0
67.5°	129.4	59.3	29.0	24.2	24.2
70°	88.3	38.7	21.8	19.4	19.4
72.5°	53.2	23.0	15.7	15.7	15.7
75°	21.8	14.5	12.1	12.1	12.1
77.5°	7.3	8.5	8.5	9.7	9.7
80°	4.8	4.8	6.0	7.3	7.3
82.5°	2.4	3.6	3.6	4.8	4.8
85°	1.2	1.2	2.4	2.4	2.4
87.5°	0.0	0.0	0.0	1.2	1.2
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	15.86	17.19	16.23	17.50	17.82	6.51	7.84	6.88	8.16	8.47
	3H	16.57	17.74	16.95	18.07	18.44	7.30	8.47	7.68	8.80	9.17
	4H	16.58	17.68	16.99	18.03	18.41	7.55	8.64	7.95	8.99	9.37
	6H	16.51	17.52	16.93	17.89	18.28	7.73	8.73	8.14	9.10	9.50
	8H	16.47	17.42	16.90	17.82	18.22	7.77	8.72	8.20	9.11	9.52
	12H	16.43	17.34	16.86	17.72	18.15	7.78	8.69	8.21	9.07	9.50
4H	2H	15.69	16.79	16.09	17.14	17.52	7.00	8.10	7.40	8.45	8.83
	3H	16.44	17.33	16.85	17.73	18.14	7.91	8.80	8.32	9.21	9.61
	4H	16.46	17.25	16.89	17.67	18.11	8.22	9.02	8.66	9.44	9.88
	6H	16.39	17.08	16.86	17.52	17.99	8.49	9.17	8.95	9.62	10.08
	8H	16.34	16.98	16.81	17.43	17.90	8.55	9.19	9.02	9.64	10.11
	12H	16.30	16.86	16.79	17.34	17.82	8.58	9.14	9.06	9.62	10.10
8H	4H	16.34	16.98	16.81	17.42	17.89	8.34	8.97	8.81	9.42	9.89
	6H	16.26	16.78	16.77	17.28	17.76	8.66	9.18	9.16	9.67	10.16
	8H	16.21	16.68	16.73	17.19	17.68	8.76	9.23	9.28	9.74	10.24
	12H	16.17	16.58	16.68	17.07	17.65	8.82	9.23	9.34	9.73	10.30
12H	4H	16.29	16.86	16.78	17.34	17.81	8.31	8.87	8.79	9.35	9.83
	6H	16.21	16.67	16.73	17.19	17.68	8.63	9.09	9.15	9.61	10.10
	8H	16.17	16.58	16.69	17.08	17.65	8.77	9.18	9.28	9.67	10.24