

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: P1061552

Luminaire Tested: S125RDRP-S1270D927-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061552
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1270D927-X4F0-XX-UDD-BVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

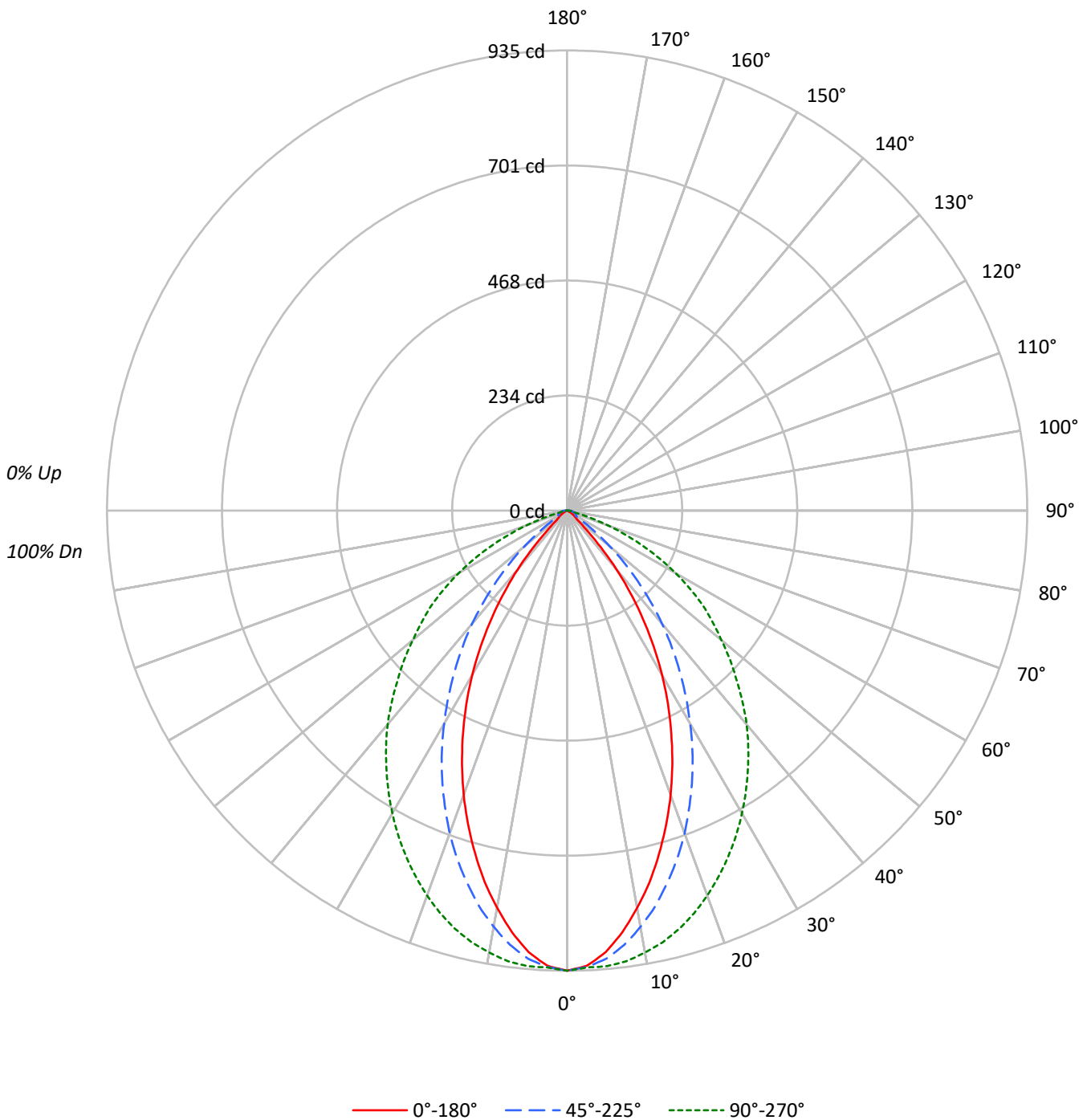
Lumens per Lamp: N/A
Luminaire Lumens: 1202.5 lumens
Efficiency: N/A
Efficacy: 28.8 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	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	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6437	6437	6437
5°	6223	6319	6422
10°	5732	6005	6376
15°	5146	5589	6271
20°	4505	5112	6100
25°	3805	4566	5887
30°	3066	3973	5648
35°	2255	3349	5381
40°	1408	2701	5102
45°	527	1973	4742
50°	246	1233	4378
55°	180	511	4050
60°	127	270	3505
65°	75	319	2776
70°	70	370	1761
75°	93	367	551
80°	139	456	412
85°	276	727	545

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4742 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.7	7.1
10°-20°	221.9	18.5
20°-30°	282.7	23.5
30°-40°	263.2	21.9
40°-50°	180.3	15.0
50°-60°	99.3	8.3
60°-70°	47.0	3.9
70°-80°	14.8	1.2
80°-90°	7.6	0.6
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°	590.4	49.1
0°-40°	853.6	71.0
0°-60°	1133.1	94.2
0°-90°	1202.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1202.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	935	935	935	935	935	
5°	900	912	914	921	929	83
15°	722	745	784	843	880	201
25°	501	532	601	698	775	229
35°	268	306	398	530	640	166
45°	54	91	203	359	487	52
55°	15	17	43	200	337	14
65°	5	6	20	74	170	5
75°	4	6	14	15	21	4
85°	4	8	9	8	7	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	934.9	934.9	934.9	934.9	934.9
2.5°	925.7	934.9	928.0	928.0	929.2
5°	900.4	911.9	914.2	921.1	929.2
7.5°	863.5	878.5	890.0	909.6	923.4
10°	819.8	838.2	858.9	891.2	911.9
12.5°	773.7	793.3	824.4	869.3	898.1
15°	721.9	744.9	784.1	842.8	879.7
17.5°	669.0	694.3	742.6	811.7	857.8
20°	614.8	641.3	697.7	774.9	832.5
22.5°	558.4	587.2	649.4	736.9	804.8
25°	500.9	531.9	601.0	697.7	774.9
27.5°	443.3	475.5	551.5	657.4	743.8
30°	385.7	419.1	499.7	616.0	710.4
32.5°	327.0	363.8	449.0	574.5	675.9
35°	268.3	306.3	398.4	529.6	640.2
37.5°	210.7	249.9	348.9	487.0	604.5
40°	156.6	195.7	300.5	444.4	567.6
42.5°	101.3	142.8	249.9	400.7	527.3
45°	54.1	91.0	202.6	359.2	487.0
47.5°	28.8	48.4	157.7	317.8	449.0
50°	23.0	26.5	115.1	276.3	408.7
52.5°	18.4	20.7	73.7	233.7	373.0
55°	15.0	17.3	42.6	200.3	337.4
57.5°	11.5	13.8	24.2	167.0	295.9
60°	9.2	10.4	19.6	133.6	254.5
62.5°	5.8	8.1	19.6	103.6	213.0
65°	4.6	5.8	19.6	73.7	170.4
67.5°	4.6	4.6	19.6	48.4	127.8
70°	3.5	3.5	18.4	31.1	87.5
72.5°	3.5	3.5	16.1	20.7	50.7
75°	3.5	5.8	13.8	15.0	20.7
77.5°	3.5	9.2	12.7	12.7	11.5
80°	3.5	9.2	11.5	10.4	10.4
82.5°	3.5	9.2	9.2	9.2	8.1
85°	3.5	8.1	9.2	8.1	6.9
87.5°	3.5	8.1	8.1	8.1	4.6
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	0.00	0.00	0.00	0.00	0.00	15.52	16.80	15.88	17.11	17.43
	3H	0.00	0.00	0.00	0.00	0.00	16.30	17.44	16.68	17.77	18.14
	4H	0.00	0.00	0.00	0.00	0.00	16.33	17.39	16.73	17.74	18.12
	6H	0.00	0.20	0.00	0.57	0.96	16.29	17.26	16.70	17.63	18.02
	8H	0.00	0.83	0.34	1.22	1.62	16.26	17.18	16.69	17.57	17.98
	12H	0.67	1.54	1.10	1.93	2.36	16.24	17.12	16.68	17.50	17.94
4H	2H	0.00	0.36	0.00	0.71	1.09	15.30	16.36	15.70	16.71	17.09
	3H	0.17	1.04	0.59	1.44	1.84	16.13	16.99	16.54	17.39	17.80
	4H	0.78	1.55	1.22	1.97	2.41	16.16	16.93	16.60	17.35	17.80
	6H	2.28	2.94	2.74	3.39	3.86	16.15	16.81	16.61	17.26	17.73
	8H	3.02	3.64	3.49	4.09	4.56	16.13	16.75	16.60	17.20	17.67
	12H	3.77	4.32	4.26	4.80	5.28	16.13	16.68	16.62	17.17	17.64
8H	4H	2.81	3.43	3.28	3.88	4.35	16.05	16.67	16.52	17.11	17.59
	6H	4.56	5.06	5.06	5.56	6.04	16.05	16.55	16.55	17.05	17.53
	8H	5.51	5.96	6.03	6.48	6.97	16.06	16.51	16.58	17.03	17.52
	12H	6.45	6.85	6.97	7.35	7.92	16.10	16.50	16.62	17.00	17.57
12H	4H	3.12	3.66	3.60	4.15	4.62	16.01	16.55	16.49	17.04	17.51
	6H	5.01	5.47	5.54	5.98	6.48	16.00	16.46	16.53	16.97	17.47
	8H	6.15	6.55	6.66	7.04	7.62	16.04	16.44	16.56	16.94	17.51