

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: P1061483

Luminaire Tested: S125RDRP-S1090D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061483
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-86)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1090D930-X4F0-XX-UDD-SVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

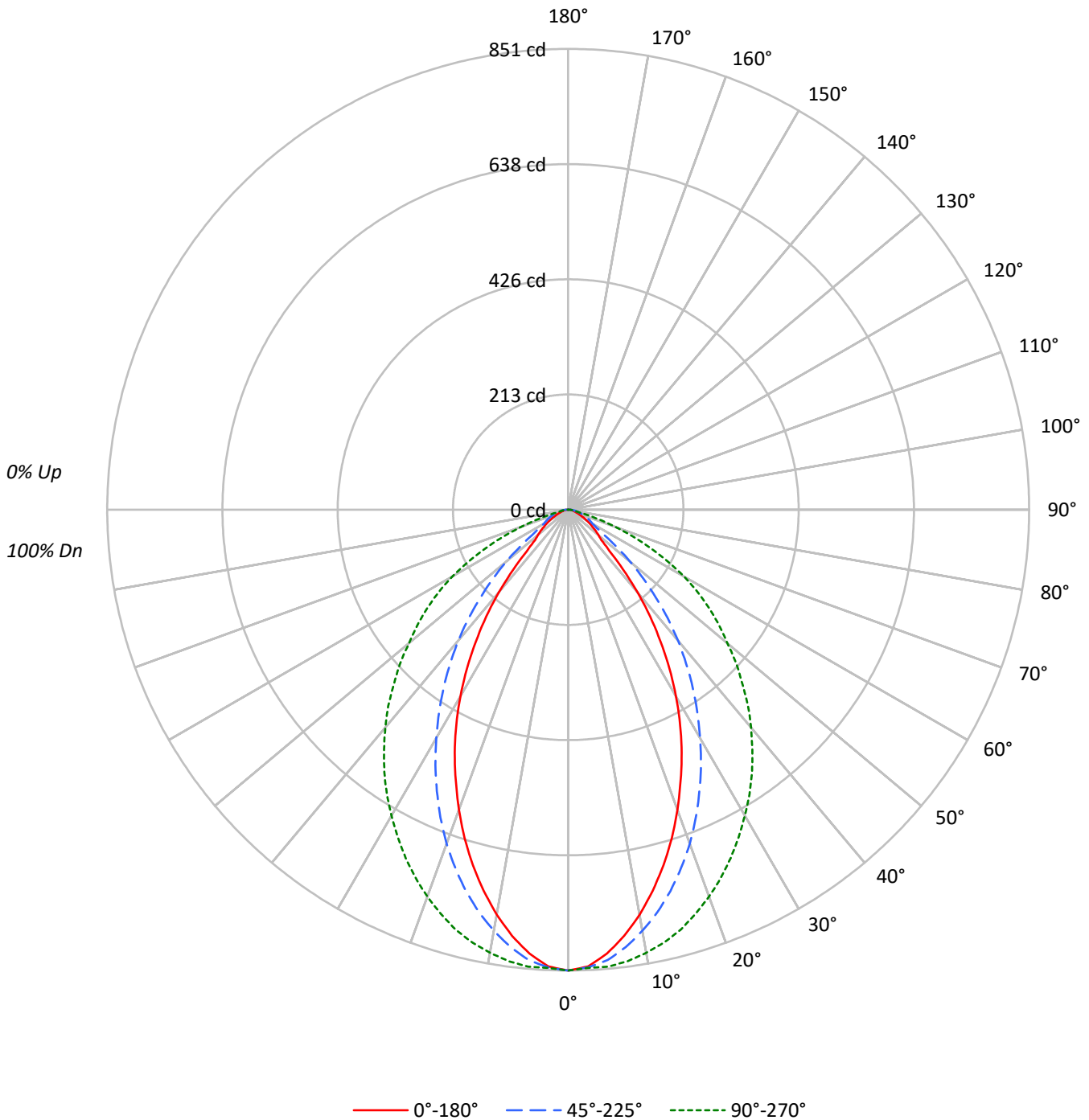
Lumens per Lamp: N/A
Luminaire Lumens: 1228.9 lumens
Efficiency: N/A
Efficacy: 35.1 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89					89			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56					56			
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51					51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46					46			
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42					42			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39					39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5859	5859	5859
5°	5687	5770	5854
10°	5308	5520	5809
15°	4843	5196	5721
20°	4320	4808	5570
25°	3766	4356	5392
30°	3163	3869	5185
35°	2495	3369	4973
40°	1788	2831	4719
45°	1052	2222	4424
50°	779	1600	4109
55°	654	970	3817
60°	529	709	3405
65°	411	674	2731
70°	346	630	1850
75°	322	564	806
80°	321	559	519
85°	395	719	561

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4424 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.4	6.4
10°-20°	206.0	16.8
20°-30°	269.2	21.9
30°-40°	262.1	21.3
40°-50°	195.9	15.9
50°-60°	121.5	9.9
60°-70°	63.8	5.2
70°-80°	23.2	1.9
80°-90°	8.8	0.7
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°	553.6	45.1
0°-40°	815.7	66.4
0°-60°	1133.0	92.2
0°-90°	1228.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1228.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	851	851	851	851	851	
5°	823	834	835	840	847	77
15°	679	700	729	773	803	190
25°	496	521	573	651	710	226
35°	297	329	401	508	592	185
45°	108	141	228	356	454	91
55°	54	58	81	210	318	49
65°	25	27	41	89	168	26
75°	12	14	21	23	30	13
85°	5	9	9	9	7	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	851.0	851.0	851.0	851.0	851.0
2.5°	844.0	851.0	846.0	846.0	847.0
5°	822.8	833.9	834.9	839.9	847.0
7.5°	793.5	806.6	814.7	829.8	840.9
10°	759.2	774.3	789.5	814.7	830.8
12.5°	720.8	739.0	761.2	795.5	818.7
15°	679.4	699.6	728.9	773.3	802.6
17.5°	636.0	657.2	693.6	747.1	782.4
20°	589.6	612.8	656.2	716.8	760.2
22.5°	542.1	568.4	615.8	684.5	736.0
25°	495.7	520.9	573.4	651.2	709.7
27.5°	447.2	473.5	531.0	616.8	681.4
30°	397.8	426.0	486.6	581.5	652.2
32.5°	348.3	377.6	443.2	545.1	622.9
35°	296.8	329.1	400.8	507.8	591.6
37.5°	248.3	282.7	357.4	469.4	558.3
40°	198.9	234.2	315.0	432.1	525.0
42.5°	150.4	186.8	271.6	393.7	491.6
45°	108.0	141.3	228.2	356.4	454.3
47.5°	82.8	102.0	187.8	318.0	421.0
50°	72.7	78.7	149.4	280.7	383.6
52.5°	63.6	67.6	111.0	244.3	351.3
55°	54.5	57.5	80.8	210.0	318.0
57.5°	46.4	49.5	61.6	178.7	283.7
60°	38.4	41.4	51.5	147.4	247.3
62.5°	32.3	33.3	46.4	118.1	207.0
65°	25.2	27.3	41.4	88.8	167.6
67.5°	21.2	22.2	36.3	63.6	129.2
70°	17.2	18.2	31.3	44.4	91.9
72.5°	15.1	15.1	26.2	32.3	58.6
75°	12.1	14.1	21.2	23.2	30.3
77.5°	10.1	14.1	18.2	17.2	16.2
80°	8.1	13.1	14.1	14.1	13.1
82.5°	7.1	11.1	12.1	11.1	10.1
85°	5.0	9.1	9.1	9.1	7.1
87.5°	4.0	8.1	7.1	7.1	5.0
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	5.93	7.28	6.30	7.59	7.91	15.63	16.98	16.00	17.30	17.61
	3H	6.77	7.97	7.15	8.30	8.66	16.55	17.74	16.93	18.07	18.44
	4H	7.13	8.25	7.53	8.60	8.98	16.64	17.76	17.05	18.11	18.49
	6H	7.50	8.53	7.92	8.90	9.29	16.63	17.66	17.04	18.03	18.42
	8H	7.68	8.66	8.11	9.05	9.45	16.62	17.59	17.05	17.98	18.39
	12H	7.85	8.78	8.28	9.16	9.59	16.60	17.53	17.04	17.92	18.35
4H	2H	6.76	7.88	7.16	8.23	8.61	15.48	16.60	15.89	16.95	17.33
	3H	7.82	8.73	8.23	9.14	9.54	16.47	17.39	16.89	17.79	18.19
	4H	8.27	9.09	8.71	9.51	9.95	16.60	17.42	17.04	17.84	18.28
	6H	8.83	9.53	9.29	9.98	10.45	16.64	17.34	17.10	17.79	18.25
	8H	9.09	9.75	9.56	10.20	10.67	16.64	17.30	17.10	17.74	18.21
	12H	9.33	9.91	9.82	10.40	10.87	16.64	17.23	17.13	17.71	18.18
8H	4H	8.83	9.49	9.29	9.93	10.40	16.53	17.19	17.00	17.63	18.10
	6H	9.60	10.14	10.10	10.64	11.12	16.59	17.13	17.09	17.62	18.10
	8H	10.02	10.50	10.54	11.02	11.51	16.62	17.10	17.14	17.62	18.11
	12H	10.44	10.86	10.95	11.36	11.93	16.67	17.10	17.18	17.59	18.16
12H	4H	8.89	9.47	9.37	9.95	10.43	16.49	17.08	16.98	17.56	18.03
	6H	9.75	10.23	10.27	10.75	11.24	16.55	17.04	17.07	17.55	18.04
	8H	10.27	10.70	10.79	11.20	11.77	16.62	17.05	17.13	17.54	18.11