

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: P1061501

Luminaire Tested: S125RDRP-S1090D940-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061501
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-S1090D940-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

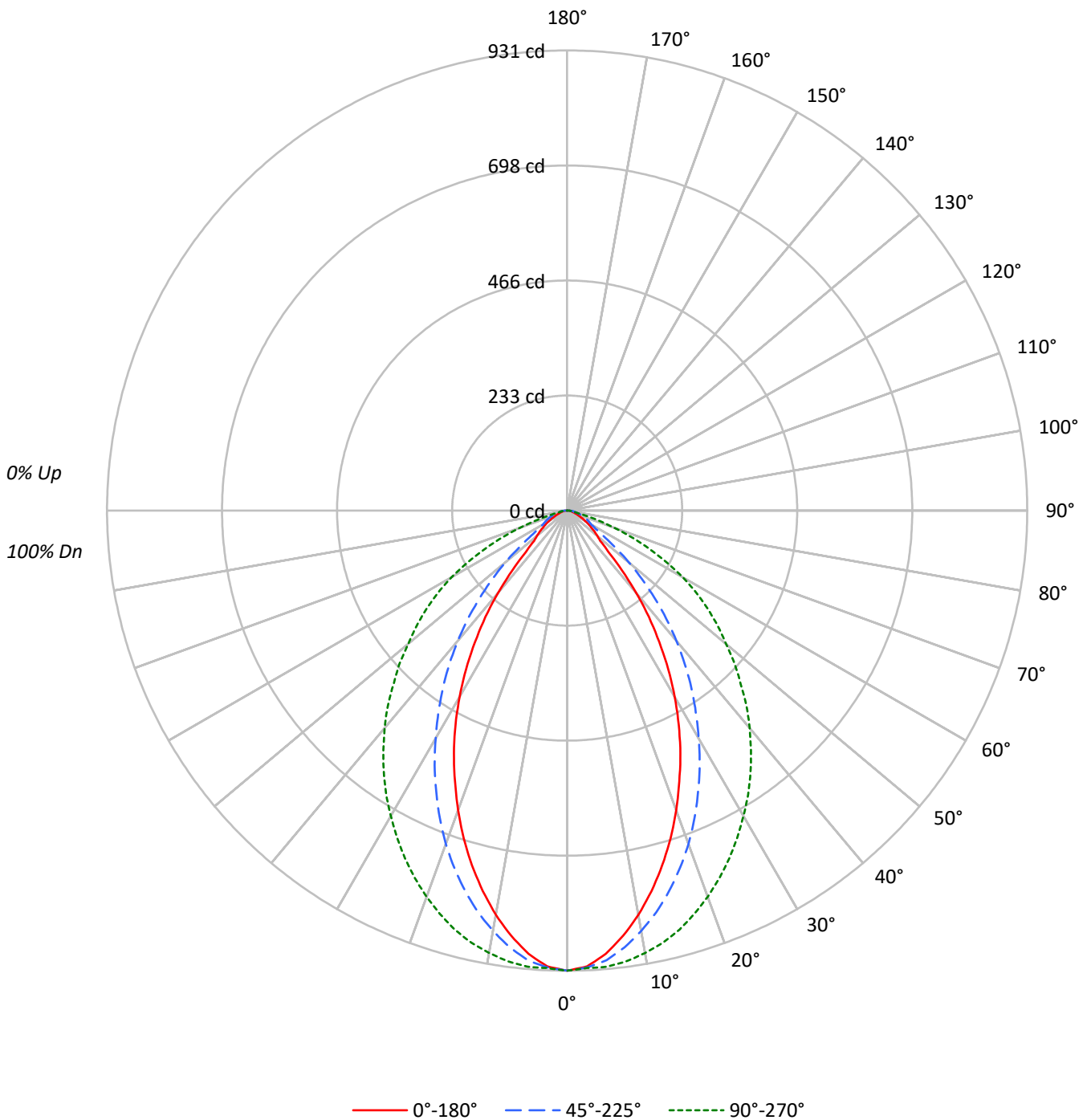
Lumens per Lamp: N/A
Luminaire Lumens: 1344.0 lumens
Efficiency: N/A
Efficacy: 38.4 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	6409	6409	6409
5°	6220	6311	6403
10°	5805	6036	6353
15°	5297	5683	6257
20°	4725	5259	6092
25°	4118	4765	5897
30°	3458	4231	5671
35°	2728	3684	5438
40°	1955	3096	5161
45°	1150	2429	4838
50°	852	1750	4495
55°	715	1060	4175
60°	578	775	3725
65°	450	738	2986
70°	378	688	2023
75°	351	617	881
80°	349	615	571
85°	434	782	608

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4838 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	6.4
10°-20°	225.3	16.8
20°-30°	294.4	21.9
30°-40°	286.6	21.3
40°-50°	214.2	15.9
50°-60°	132.9	9.9
60°-70°	69.8	5.2
70°-80°	25.4	1.9
80°-90°	9.6	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°	605.5	45.1
0°-40°	892.1	66.4
0°-60°	1239.2	92.2
0°-90°	1344.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1344.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	931	931	931	931	931	
5°	900	912	913	919	926	84
15°	743	765	797	846	878	207
25°	542	570	627	712	776	248
35°	325	360	438	555	647	202
45°	118	155	250	390	497	99
55°	60	63	88	230	348	54
65°	28	30	45	97	183	29
75°	13	16	23	25	33	14
85°	6	10	10	10	8	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	930.8	930.8	930.8	930.8	930.8
2.5°	923.1	930.8	925.3	925.3	926.4
5°	899.9	912.0	913.1	918.7	926.4
7.5°	867.9	882.2	891.1	907.6	919.8
10°	830.3	846.9	863.4	891.1	908.7
12.5°	788.4	808.2	832.5	870.1	895.5
15°	743.1	765.2	797.2	845.8	877.8
17.5°	695.6	718.8	758.6	817.1	855.7
20°	644.8	670.2	717.7	783.9	831.4
22.5°	592.9	621.6	673.5	748.6	804.9
25°	542.1	569.7	627.2	712.2	776.2
27.5°	489.1	517.8	580.8	674.6	745.3
30°	435.0	466.0	532.2	636.0	713.3
32.5°	380.9	413.0	484.7	596.2	681.3
35°	324.6	360.0	438.3	555.4	647.0
37.5°	271.6	309.2	390.9	513.4	610.6
40°	217.5	256.2	344.5	472.6	574.2
42.5°	164.5	204.3	297.0	430.6	537.7
45°	118.1	154.6	249.5	389.8	496.9
47.5°	90.5	111.5	205.4	347.8	460.4
50°	79.5	86.1	163.4	307.0	419.6
52.5°	69.6	74.0	121.5	267.2	384.2
55°	59.6	62.9	88.3	229.7	347.8
57.5°	50.8	54.1	67.4	195.4	310.3
60°	42.0	45.3	56.3	161.2	270.5
62.5°	35.3	36.4	50.8	129.2	226.4
65°	27.6	29.8	45.3	97.2	183.3
67.5°	23.2	24.3	39.7	69.6	141.3
70°	18.8	19.9	34.2	48.6	100.5
72.5°	16.6	16.6	28.7	35.3	64.0
75°	13.2	15.5	23.2	25.4	33.1
77.5°	11.0	15.5	19.9	18.8	17.7
80°	8.8	14.4	15.5	15.5	14.4
82.5°	7.7	12.1	13.2	12.1	11.0
85°	5.5	9.9	9.9	9.9	7.7
87.5°	4.4	8.8	7.7	7.7	5.5
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	6.24	7.59	6.61	7.90	8.22	15.94	17.29	16.31	17.61	17.92
	3H	7.08	8.28	7.46	8.61	8.97	16.86	18.05	17.24	18.38	18.75
	4H	7.44	8.56	7.84	8.91	9.29	16.95	18.07	17.36	18.42	18.80
	6H	7.81	8.84	8.23	9.21	9.60	16.94	17.97	17.36	18.34	18.73
	8H	7.99	8.96	8.42	9.36	9.76	16.93	17.90	17.36	18.29	18.70
	12H	8.15	9.08	8.59	9.47	9.90	16.91	17.85	17.35	18.23	18.66
4H	2H	7.07	8.19	7.47	8.54	8.92	15.80	16.91	16.20	17.26	17.65
	3H	8.13	9.04	8.54	9.45	9.85	16.78	17.70	17.20	18.10	18.51
	4H	8.59	9.40	9.02	9.82	10.27	16.91	17.73	17.35	18.15	18.59
	6H	9.14	9.85	9.61	10.30	10.76	16.95	17.65	17.41	18.10	18.56
	8H	9.40	10.06	9.87	10.51	10.98	16.95	17.61	17.42	18.05	18.52
	12H	9.64	10.22	10.13	10.71	11.18	16.95	17.54	17.44	18.02	18.49
8H	4H	9.14	9.80	9.61	10.25	10.72	16.84	17.50	17.31	17.94	18.41
	6H	9.92	10.46	10.42	10.96	11.44	16.90	17.44	17.40	17.93	18.42
	8H	10.33	10.82	10.85	11.33	11.82	16.93	17.41	17.45	17.93	18.42
	12H	10.75	11.18	11.26	11.67	12.24	16.98	17.41	17.49	17.90	18.47
12H	4H	9.20	9.79	9.69	10.27	10.74	16.80	17.39	17.29	17.87	18.34
	6H	10.06	10.55	10.58	11.06	11.55	16.86	17.35	17.39	17.86	18.36
	8H	10.59	11.02	11.10	11.51	12.08	16.93	17.36	17.44	17.85	18.42