

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: P1061987

Luminaire Tested: S125RDRP-H1270D940-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061987
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-H1270D940-X4F0-XX-UDD-SVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

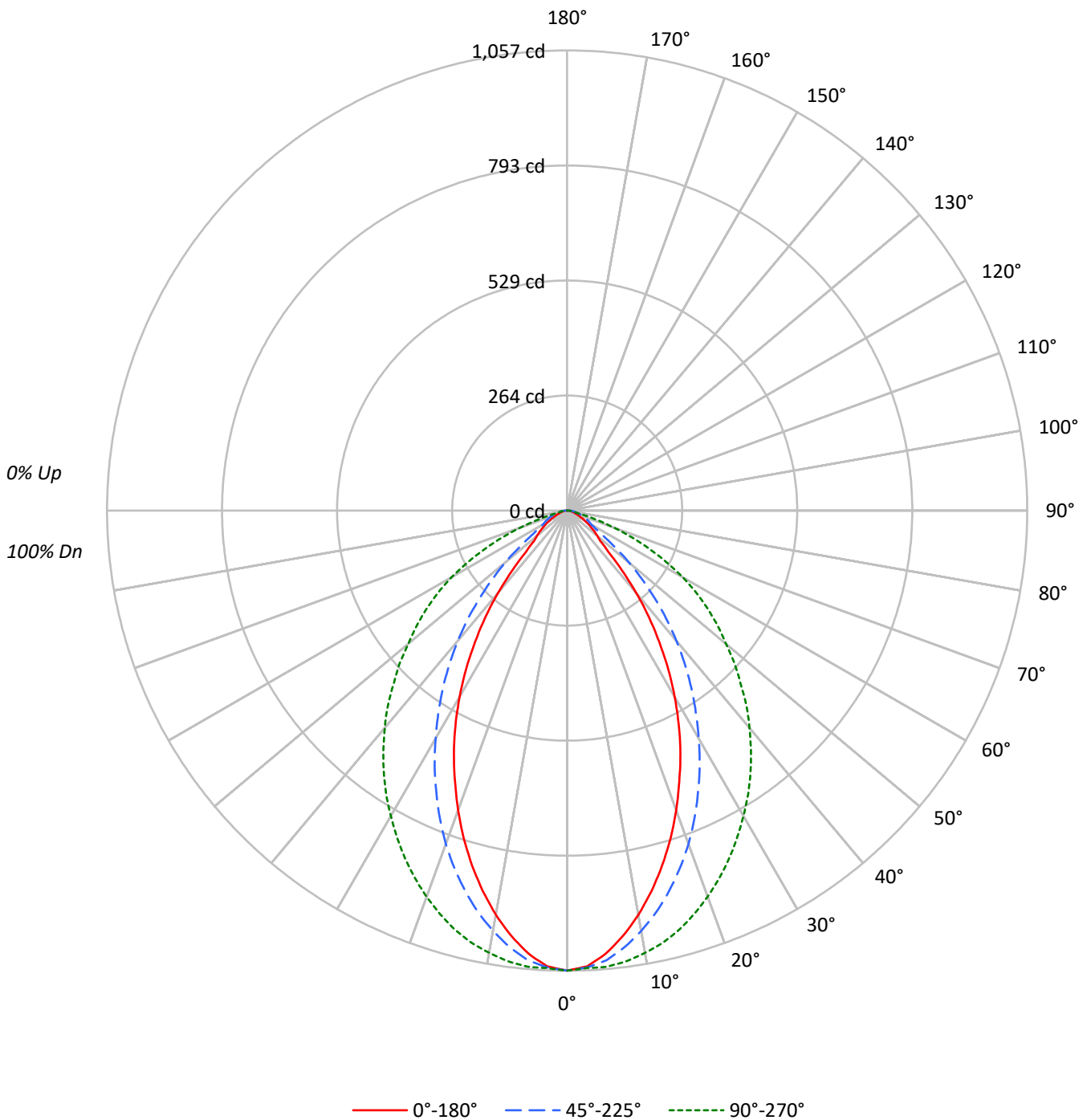
Lumens per Lamp: N/A
Luminaire Lumens: 1525.8 lumens
Efficiency: N/A
Efficacy: 41.8 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7276	7276	7276
5°	7061	7165	7269
10°	6590	6853	7212
15°	6013	6451	7103
20°	5363	5970	6916
25°	4676	5409	6694
30°	3927	4804	6438
35°	3097	4182	6175
40°	2219	3515	5858
45°	1306	2759	5493
50°	967	1987	5102
55°	813	1204	4740
60°	655	880	4229
65°	510	837	3390
70°	429	783	2297
75°	399	700	1000
80°	397	694	646
85°	498	893	695

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5493 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.4	6.4
10°-20°	255.8	16.8
20°-30°	334.3	21.9
30°-40°	325.4	21.3
40°-50°	243.2	15.9
50°-60°	150.8	9.9
60°-70°	79.2	5.2
70°-80°	28.9	1.9
80°-90°	10.9	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°	687.4	45.1
0°-40°	1012.8	66.4
0°-60°	1406.8	92.2
0°-90°	1525.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1525.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1057	1057	1057	1057	1057	
5°	1022	1035	1037	1043	1052	95
15°	844	869	905	960	996	235
25°	616	647	712	808	881	281
35°	368	409	498	630	735	229
45°	134	176	283	442	564	113
55°	68	71	100	261	395	61
65°	31	34	51	110	208	33
75°	15	18	26	29	38	16
85°	6	11	11	11	9	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1056.7	1056.7	1056.7	1056.7	1056.7
2.5°	1047.9	1056.7	1050.4	1050.4	1051.7
5°	1021.6	1035.4	1036.6	1042.9	1051.7
7.5°	985.3	1001.5	1011.6	1030.4	1044.2
10°	942.6	961.4	980.2	1011.6	1031.6
12.5°	895.0	917.6	945.1	987.8	1016.6
15°	843.6	868.7	905.0	960.2	996.5
17.5°	789.7	816.0	861.2	927.6	971.5
20°	732.0	760.9	814.8	890.0	943.9
22.5°	673.1	705.7	764.6	849.9	913.8
25°	615.5	646.8	712.0	808.5	881.2
27.5°	555.3	587.9	659.3	765.9	846.1
30°	493.9	529.0	604.2	722.0	809.8
32.5°	432.5	468.8	550.3	676.9	773.4
35°	368.5	408.6	497.6	630.5	734.6
37.5°	308.4	351.0	443.7	582.9	693.2
40°	246.9	290.8	391.1	536.5	651.8
42.5°	186.8	231.9	337.2	488.9	610.5
45°	134.1	175.5	283.3	442.5	564.1
47.5°	102.8	126.6	233.2	394.9	522.7
50°	90.3	97.8	185.5	348.5	476.3
52.5°	79.0	84.0	137.9	303.3	436.2
55°	67.7	71.4	100.3	260.7	394.9
57.5°	57.7	61.4	76.5	221.9	352.2
60°	47.6	51.4	63.9	183.0	307.1
62.5°	40.1	41.4	57.7	146.7	257.0
65°	31.3	33.8	51.4	110.3	208.1
67.5°	26.3	27.6	45.1	79.0	160.4
70°	21.3	22.6	38.9	55.2	114.1
72.5°	18.8	18.8	32.6	40.1	72.7
75°	15.0	17.5	26.3	28.8	37.6
77.5°	12.5	17.5	22.6	21.3	20.1
80°	10.0	16.3	17.5	17.5	16.3
82.5°	8.8	13.8	15.0	13.8	12.5
85°	6.3	11.3	11.3	11.3	8.8
87.5°	5.0	10.0	8.8	8.8	6.3
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	6.68	8.03	7.05	8.34	8.66	16.39	17.74	16.75	18.05	18.36
	3H	7.52	8.72	7.90	9.05	9.41	17.30	18.50	17.68	18.83	19.19
	4H	7.88	9.00	8.28	9.35	9.73	17.40	18.51	17.80	18.86	19.25
	6H	8.25	9.28	8.66	9.65	10.04	17.38	18.41	17.80	18.78	19.17
	8H	8.43	9.40	8.86	9.79	10.20	17.37	18.34	17.80	18.73	19.14
	12H	8.60	9.53	9.03	9.91	10.34	17.36	18.29	17.79	18.67	19.10
4H	2H	7.51	8.63	7.91	8.98	9.36	16.24	17.35	16.64	17.70	18.09
	3H	8.57	9.48	8.98	9.89	10.29	17.23	18.14	17.64	18.54	18.95
	4H	9.02	9.84	9.46	10.26	10.70	17.35	18.17	17.79	18.59	19.03
	6H	9.58	10.28	10.04	10.73	11.20	17.39	18.09	17.85	18.54	19.00
	8H	9.84	10.50	10.31	10.94	11.42	17.39	18.05	17.86	18.49	18.96
	12H	10.08	10.67	10.57	11.15	11.62	17.40	17.98	17.88	18.46	18.94
8H	4H	9.58	10.24	10.05	10.68	11.15	17.28	17.94	17.75	18.39	18.86
	6H	10.35	10.89	10.86	11.39	11.87	17.34	17.88	17.84	18.37	18.86
	8H	10.77	11.26	11.29	11.77	12.26	17.37	17.85	17.89	18.37	18.86
	12H	11.19	11.62	11.70	12.11	12.68	17.42	17.85	17.94	18.34	18.92
12H	4H	9.64	10.22	10.12	10.70	11.18	17.25	17.83	17.73	18.31	18.79
	6H	10.50	10.98	11.02	11.50	11.99	17.31	17.79	17.83	18.30	18.80
	8H	11.03	11.45	11.54	11.95	12.52	17.37	17.80	17.88	18.29	18.86