

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: P1061810

Luminaire Tested: S125RDRP-S850D930-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061810
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S850D930-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

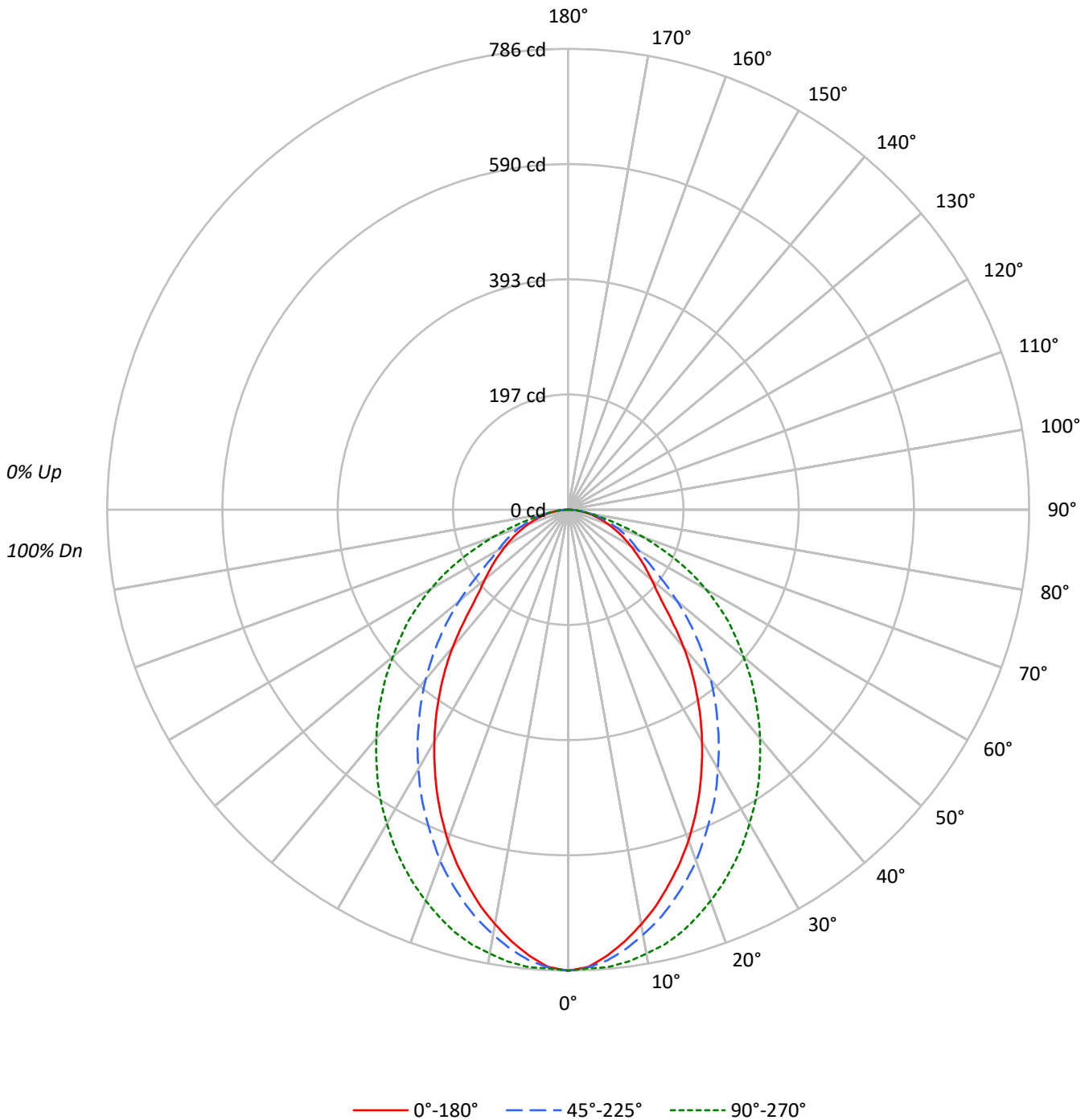
Lumens per Lamp: N/A
Luminaire Lumens: 1473.8 lumens
Efficiency: N/A
Efficacy: 57.1 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
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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CATALOG NUMBER: S125RDRP-S850D930-X4F0-XX-UDD-WVL-S

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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86					86			
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64					64			
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46	44					44			
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36					36			
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33					33			
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5413	5413	5413
5°	5276	5331	5412
10°	5019	5145	5376
15°	4720	4927	5318
20°	4396	4673	5202
25°	4027	4374	5072
30°	3628	4059	4914
35°	3208	3730	4760
40°	2753	3396	4574
45°	2248	3020	4382
50°	1993	2591	4181
55°	1829	2150	4007
60°	1687	1903	3732
65°	1574	1830	3327
70°	1470	1739	2720
75°	1359	1631	2006
80°	1277	1527	1463
85°	1177	1485	1240

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4382 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	4.9
10°-20°	196.0	13.3
20°-30°	269.3	18.3
30°-40°	285.5	19.4
40°-50°	249.2	16.9
50°-60°	189.3	12.8
60°-70°	126.8	8.6
70°-80°	65.4	4.4
80°-90°	19.6	1.3
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°	538.1	36.5
0°-40°	823.5	55.9
0°-60°	1262.0	85.6
0°-90°	1473.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1473.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	786	786	786	786	786	
5°	763	771	771	777	783	71
15°	662	675	691	722	746	186
25°	530	547	576	624	668	243
35°	382	404	444	507	566	238
45°	231	254	310	384	450	182
55°	152	157	179	263	334	137
65°	97	99	112	150	204	96
75°	51	54	61	65	75	55
85°	15	19	19	17	16	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	786.2	786.2	786.2	786.2	786.2
2.5°	780.7	786.2	781.5	781.5	783.0
5°	763.4	771.3	771.3	776.8	783.0
7.5°	742.2	750.8	755.6	768.1	777.6
10°	717.9	727.3	735.9	754.8	768.9
12.5°	691.9	702.2	715.5	739.9	759.5
15°	662.1	674.7	691.2	721.8	746.1
17.5°	632.3	644.8	665.2	701.4	728.9
20°	600.0	613.4	637.7	677.0	710.0
22.5°	565.5	580.4	606.3	651.1	689.6
25°	530.1	546.6	575.7	623.6	667.6
27.5°	493.2	512.9	544.3	595.3	644.0
30°	456.3	476.0	510.5	566.3	618.1
32.5°	419.4	440.6	478.3	537.2	593.0
35°	381.7	403.7	443.8	506.6	566.3
37.5°	344.8	366.8	411.6	476.7	537.2
40°	306.3	329.1	377.8	446.1	508.9
42.5°	267.0	291.4	344.0	414.7	479.9
45°	230.9	253.7	310.2	384.1	450.0
47.5°	204.2	219.1	276.5	352.6	421.0
50°	186.1	194.0	241.9	322.0	390.3
52.5°	168.1	174.4	209.7	290.6	361.3
55°	152.4	157.1	179.1	263.1	333.8
57.5°	136.7	141.4	155.5	235.6	301.6
60°	122.5	126.5	138.2	206.6	271.0
62.5°	109.2	112.3	124.9	179.1	238.0
65°	96.6	99.0	112.3	150.0	204.2
67.5°	84.0	86.4	99.7	122.5	168.1
70°	73.0	73.8	86.4	99.7	135.1
72.5°	62.0	62.8	73.0	80.9	103.7
75°	51.1	54.2	61.3	65.2	75.4
77.5°	41.6	45.6	49.5	51.1	51.1
80°	32.2	36.9	38.5	38.5	36.9
82.5°	23.6	27.5	28.3	26.7	25.1
85°	14.9	18.8	18.8	17.3	15.7
87.5°	7.1	10.2	10.2	9.4	7.1
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	12.48	13.97	12.84	14.29	14.60	16.40	17.90	16.77	18.21	18.53
	3H	14.05	15.39	14.42	15.72	16.08	17.82	19.17	18.20	19.49	19.86
	4H	14.66	15.92	15.06	16.27	16.65	18.24	19.50	18.64	19.85	20.23
	6H	15.15	16.32	15.57	16.68	17.08	18.46	19.62	18.87	19.99	20.38
	8H	15.33	16.44	15.76	16.83	17.23	18.51	19.62	18.94	20.01	20.41
	12H	15.45	16.51	15.88	16.89	17.32	18.55	19.61	18.98	19.99	20.42
4H	2H	13.21	14.47	13.61	14.82	15.20	16.53	17.79	16.93	18.14	18.51
	3H	14.99	16.03	15.40	16.44	16.84	18.14	19.18	18.55	19.58	19.98
	4H	15.73	16.67	16.16	17.08	17.52	18.66	19.61	19.10	20.02	20.46
	6H	16.36	17.18	16.82	17.62	18.08	19.01	19.83	19.47	20.27	20.73
	8H	16.59	17.36	17.05	17.80	18.27	19.11	19.87	19.57	20.32	20.78
	12H	16.76	17.45	17.25	17.93	18.40	19.18	19.86	19.66	20.34	20.81
8H	4H	16.13	16.89	16.59	17.34	17.80	18.77	19.54	19.24	19.98	20.45
	6H	16.91	17.54	17.41	18.04	18.51	19.21	19.84	19.71	20.33	20.81
	8H	17.24	17.80	17.75	18.31	18.80	19.37	19.94	19.88	20.45	20.93
	12H	17.51	18.01	18.02	18.51	19.07	19.50	20.01	20.01	20.50	21.06
12H	4H	16.17	16.85	16.65	17.33	17.80	18.77	19.45	19.25	19.93	20.40
	6H	17.00	17.56	17.51	18.07	18.56	19.23	19.79	19.74	20.30	20.79
	8H	17.39	17.89	17.90	18.39	18.95	19.44	19.94	19.95	20.43	20.99