

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1061962

Luminaire Tested: S125RDR-H1270D927-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061962
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-46)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-H1270D927-X4F0-XX-UDD-WVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

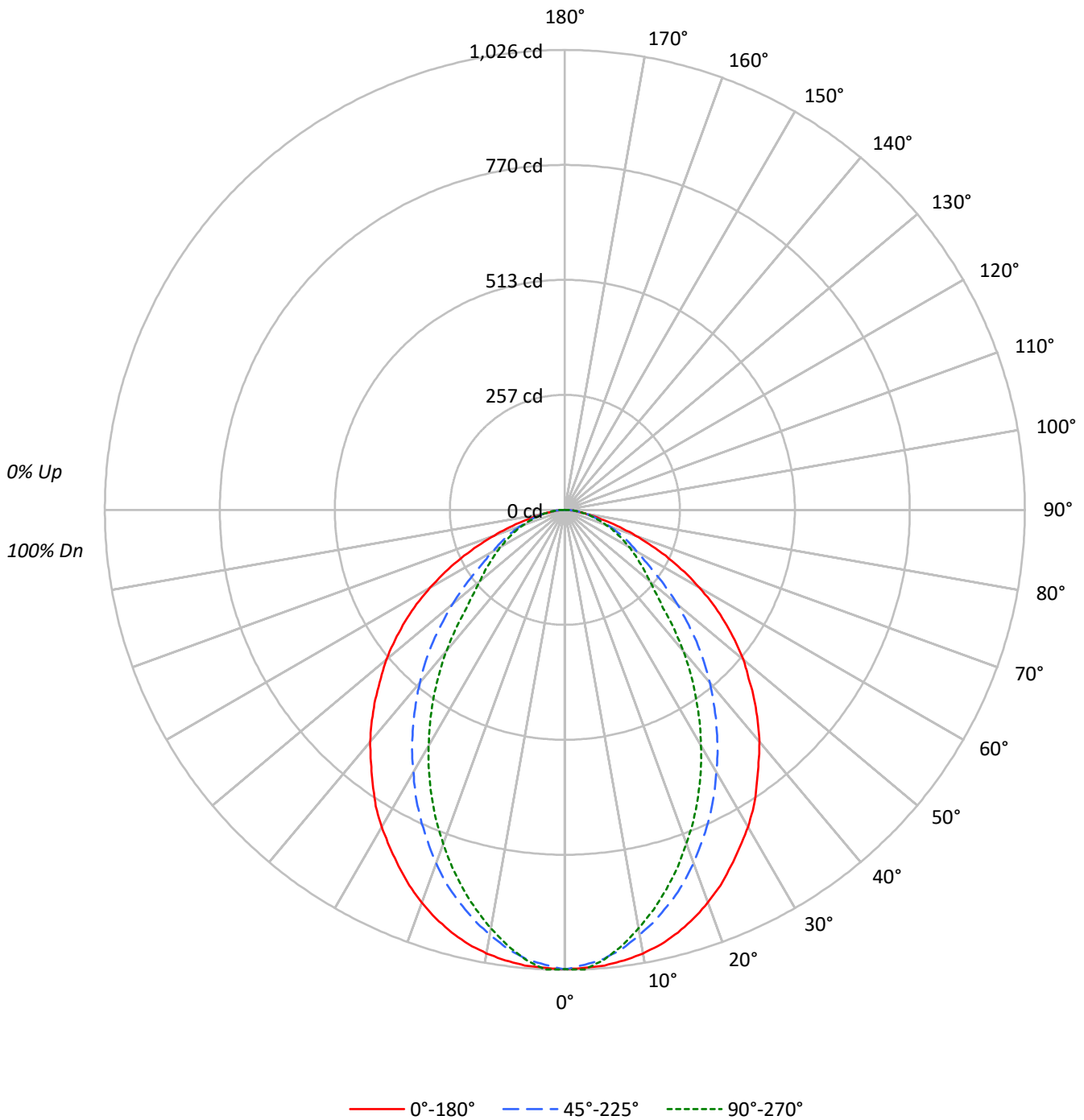
Lumens per Lamp: N/A
Luminaire Lumens: 1941.5 lumens
Efficiency: N/A
Efficacy: 53.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
Input Voltage (V): 120
Input Current (Ain): 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

TEST NUMBER: P1061962

CATALOG NUMBER: S125RDR-H1270D927-X4F0-XX-UDD-WVL-B

Luminous Intensity Polar Plot





TEST NUMBER: P1061962

CATALOG NUMBER: S125RDR-H1270D927-X4F0-XX-UDD-WVL-B

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	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	108	104	100	97	100	97	94	96	93	91	92	90	89	87			87	
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75			75	
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65			65	
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57			57	
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50			50	
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45			45	
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40			40	
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36			36	
9	61	48	41	35	60	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°	7057	7057	7057
5°	7053	6945	6961
10°	7026	6730	6629
15°	6956	6464	6243
20°	6833	6147	5805
25°	6662	5783	5343
30°	6494	5370	4831
35°	6276	4957	4284
40°	6071	4521	3690
45°	5819	4042	3023
50°	5567	3505	2646
55°	5223	2925	2444
60°	4766	2559	2283
65°	4169	2340	2121
70°	3382	2106	1971
75°	2426	1923	1836
80°	1677	1721	1721
85°	1232	1493	1580

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5819 cd/sqm

TEST NUMBER: P1061962

CATALOG NUMBER: S125RDR-H1270D927-X4F0-XX-UDD-WVL-B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.3	4.9
10°-20°	257.7	13.3
20°-30°	356.2	18.3
30°-40°	379.5	19.5
40°-50°	333.3	17.2
50°-60°	252.8	13.0
60°-70°	164.1	8.5
70°-80°	81.3	4.2
80°-90°	21.3	1.1
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°	709.3	36.5
0°-40°	1088.7	56.1
0°-60°	1674.8	86.3
0°-90°	1941.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1941.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1025	1025	1025	1025	1025	
5°	1020	1018	1005	1008	1007	97
15°	976	954	907	886	876	275
25°	877	829	761	722	703	404
35°	747	678	590	536	510	467
45°	598	514	415	340	310	461
55°	435	349	244	210	204	388
65°	256	190	144	132	130	253
75°	91	80	72	70	69	102
85°	16	18	19	19	20	19
90°	0	0	0	0	0	



TEST NUMBER: P1061962

CATALOG NUMBER: S125RDR-H1270D927-X4F0-XX-UDD-WVL-B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1024.9	1024.9	1024.9	1024.9	1024.9
2.5°	1022.7	1024.9	1016.0	1023.8	1026.0
5°	1020.4	1018.2	1004.9	1008.2	1007.1
7.5°	1013.8	1009.3	987.0	984.8	980.4
10°	1004.9	993.7	962.6	954.8	948.1
12.5°	992.6	974.8	937.0	921.4	913.6
15°	975.9	953.7	906.9	885.8	875.8
17.5°	955.9	924.7	875.8	846.8	835.7
20°	932.5	895.8	839.0	805.7	792.3
22.5°	906.9	863.5	800.1	764.5	750.0
25°	876.9	829.0	761.2	722.2	703.3
27.5°	846.8	793.4	720.0	676.6	656.5
30°	816.8	755.6	675.5	628.7	607.6
32.5°	784.5	716.6	634.3	583.1	558.6
35°	746.7	677.7	589.8	536.4	509.7
37.5°	710.0	636.5	546.4	486.3	460.7
40°	675.5	597.6	503.0	437.3	410.6
42.5°	636.5	556.4	459.6	390.6	360.5
45°	597.6	514.1	415.1	340.5	310.5
47.5°	556.4	474.1	368.3	294.9	274.9
50°	519.7	432.9	327.2	260.4	247.0
52.5°	477.4	392.8	284.9	233.7	224.8
55°	435.1	349.4	243.7	210.3	203.6
57.5°	391.7	310.5	211.4	190.3	183.6
60°	346.1	270.4	185.8	169.1	165.8
62.5°	300.5	229.2	163.6	151.3	146.9
65°	255.9	190.3	143.6	132.4	130.2
67.5°	210.3	154.7	123.5	115.7	114.6
70°	168.0	125.7	104.6	100.2	97.9
72.5°	129.1	100.2	87.9	84.6	83.5
75°	91.2	80.1	72.3	70.1	69.0
77.5°	61.2	61.2	57.9	55.6	56.8
80°	42.3	44.5	43.4	43.4	43.4
82.5°	27.8	30.0	31.2	31.2	31.2
85°	15.6	17.8	18.9	18.9	20.0
87.5°	5.6	6.7	7.8	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1061962
 CATALOG NUMBER: S125RDR-H1270D927-X4F0-XX-UDD-WVL-B

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	17.34	18.83	17.71	19.15	19.46	13.58	15.08	13.95	15.39	15.70
	3H	18.65	19.99	19.03	20.32	20.68	15.17	16.50	15.54	16.83	17.19
	4H	19.02	20.28	19.42	20.62	21.00	15.77	17.02	16.17	17.37	17.75
	6H	19.20	20.35	19.61	20.72	21.11	16.24	17.40	16.65	17.76	18.16
	8H	19.24	20.34	19.66	20.73	21.13	16.40	17.50	16.83	17.89	18.29
	12H	19.25	20.30	19.68	20.68	21.11	16.51	17.57	16.94	17.95	18.38
4H	2H	17.45	18.71	17.85	19.06	19.44	14.25	15.50	14.65	15.85	16.23
	3H	18.94	19.98	19.35	20.38	20.78	16.03	17.06	16.44	17.47	17.87
	4H	19.42	20.35	19.85	20.77	21.21	16.74	17.68	17.18	18.09	18.53
	6H	19.70	20.51	20.16	20.96	21.42	17.33	18.14	17.79	18.59	19.05
	8H	19.77	20.53	20.24	20.97	21.44	17.54	18.30	18.00	18.74	19.21
	12H	19.81	20.49	20.29	20.97	21.44	17.69	18.37	18.18	18.85	19.32
8H	4H	19.50	20.26	19.96	20.70	21.17	17.06	17.81	17.52	18.26	18.73
	6H	19.86	20.49	20.36	20.98	21.46	17.76	18.39	18.26	18.88	19.36
	8H	19.98	20.54	20.49	21.05	21.54	18.04	18.60	18.56	19.11	19.60
	12H	20.07	20.56	20.58	21.05	21.62	18.27	18.77	18.78	19.26	19.83
12H	4H	19.49	20.17	19.98	20.65	21.12	17.08	17.76	17.56	18.24	18.71
	6H	19.87	20.43	20.38	20.94	21.43	17.81	18.37	18.33	18.89	19.37
	8H	20.03	20.52	20.54	21.01	21.58	18.15	18.65	18.66	19.14	19.70