

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: P1061557

Luminaire Tested: S125RDR-S1270D927-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061557
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-S1270D927-X4F0-XX-UDD-WVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

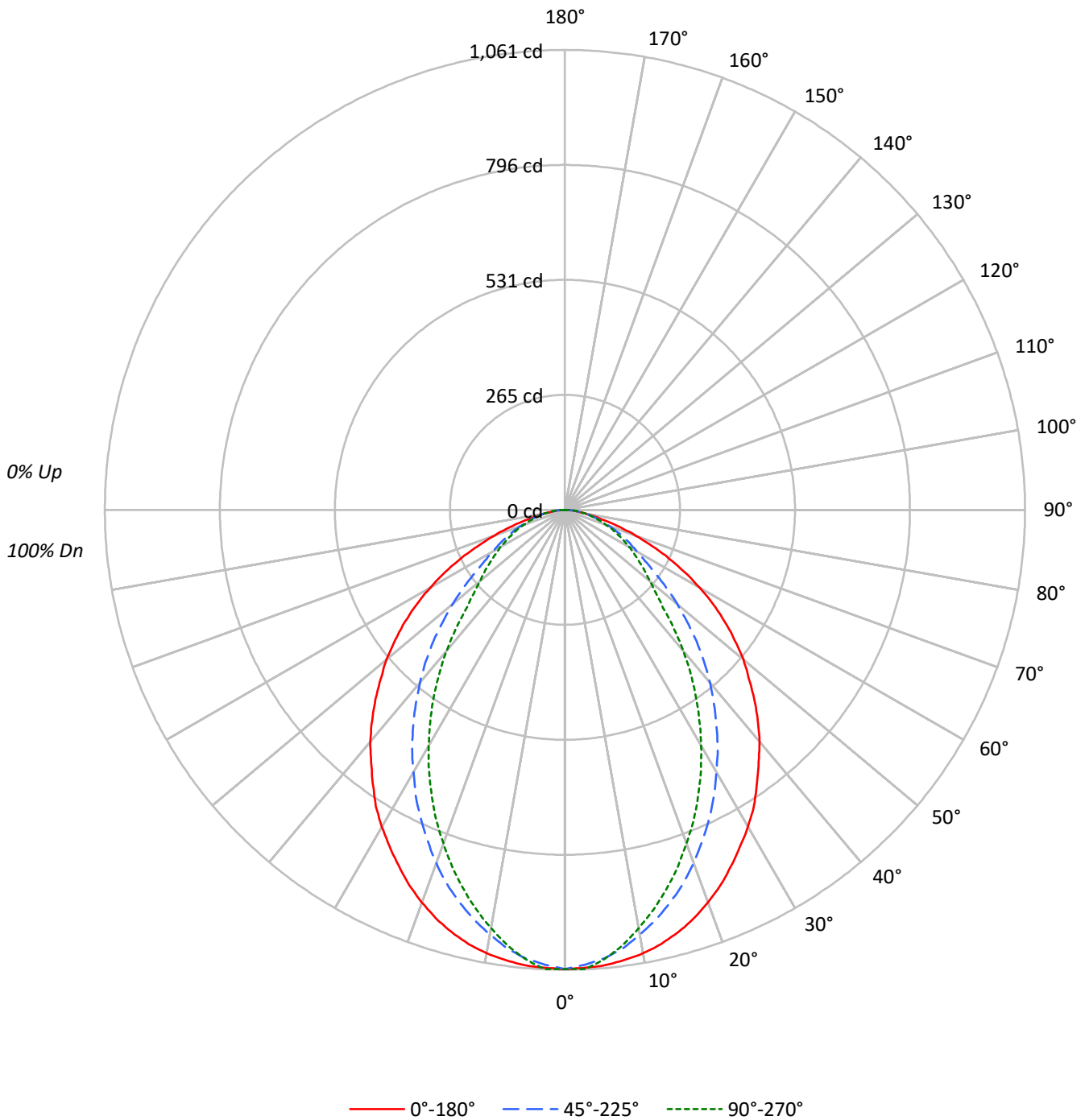
Lumens per Lamp: N/A
Luminaire Lumens: 2007.1 lumens
Efficiency: N/A
Efficacy: 48.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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: P1061557

CATALOG NUMBER: S125RDR-S1270D927-X4F0-XX-UDD-WVL-B

Luminous Intensity Polar Plot





TEST NUMBER: P1061557

CATALOG NUMBER: S125RDR-S1270D927-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	75	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°	7295	7295	7295
5°	7291	7180	7196
10°	7263	6957	6852
15°	7192	6683	6453
20°	7063	6356	6002
25°	6887	5978	5523
30°	6713	5552	4994
35°	6488	5125	4429
40°	6276	4674	3815
45°	6016	4178	3126
50°	5754	3623	2736
55°	5399	3024	2527
60°	4927	2645	2360
65°	4311	2418	2193
70°	3497	2176	2037
75°	2509	1990	1897
80°	1733	1780	1780
85°	1272	1548	1635

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6016 cd/sqm



TEST NUMBER: P1061557

CATALOG NUMBER: S125RDR-S1270D927-X4F0-XX-UDD-WVL-B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.5	4.9
10°-20°	266.4	13.3
20°-30°	368.3	18.3
30°-40°	392.3	19.5
40°-50°	344.6	17.2
50°-60°	261.3	13.0
60°-70°	169.6	8.5
70°-80°	84.1	4.2
80°-90°	22.0	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°	733.2	36.5
0°-40°	1125.5	56.1
0°-60°	1731.4	86.3
0°-90°	2007.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2007.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1055	1053	1039	1042	1041	100
15°	1009	986	938	916	905	284
25°	906	857	787	747	727	418
35°	772	701	610	554	527	483
45°	618	532	429	352	321	476
55°	450	361	252	217	210	401
65°	265	197	148	137	135	261
75°	94	83	75	72	71	105
85°	16	18	20	20	21	20
90°	0	0	0	0	0	



TEST NUMBER: P1061557

CATALOG NUMBER: S125RDR-S1270D927-X4F0-XX-UDD-WVL-B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1059.5	1059.5	1059.5	1059.5	1059.5
2.5°	1057.2	1059.5	1050.3	1058.3	1060.6
5°	1054.9	1052.6	1038.8	1042.2	1041.1
7.5°	1048.0	1043.4	1020.4	1018.1	1013.5
10°	1038.8	1027.3	995.1	987.0	980.1
12.5°	1026.1	1007.7	968.6	952.5	944.5
15°	1008.9	985.9	937.6	915.7	905.3
17.5°	988.2	956.0	905.3	875.4	863.9
20°	964.0	926.1	867.4	832.9	819.1
22.5°	937.6	892.7	827.1	790.3	775.4
25°	906.5	857.0	786.9	746.6	727.0
27.5°	875.4	820.2	744.3	699.4	678.7
30°	844.4	781.1	698.3	650.0	628.1
32.5°	811.0	740.8	655.7	602.8	577.5
35°	771.9	700.6	609.7	554.5	526.9
37.5°	733.9	658.0	564.8	502.7	476.3
40°	698.3	617.8	520.0	452.1	424.5
42.5°	658.0	575.2	475.1	403.8	372.7
45°	617.8	531.5	429.1	352.0	321.0
47.5°	575.2	490.1	380.8	304.9	284.1
50°	537.2	447.5	338.2	269.2	255.4
52.5°	493.5	406.1	294.5	241.6	232.4
55°	449.8	361.2	251.9	217.4	210.5
57.5°	404.9	321.0	218.6	196.7	189.8
60°	357.8	279.5	192.1	174.9	171.4
62.5°	310.6	237.0	169.1	156.5	151.8
65°	264.6	196.7	148.4	136.9	134.6
67.5°	217.4	159.9	127.7	119.6	118.5
70°	173.7	130.0	108.1	103.5	101.2
72.5°	133.4	103.5	90.9	87.4	86.3
75°	94.3	82.8	74.8	72.5	71.3
77.5°	63.3	63.3	59.8	57.5	58.7
80°	43.7	46.0	44.9	44.9	44.9
82.5°	28.8	31.1	32.2	32.2	32.2
85°	16.1	18.4	19.6	19.6	20.7
87.5°	5.8	6.9	8.1	9.2	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)