

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: P1061797

Luminaire Tested: S125RDR-S850D927-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S850D927-X4F0-XX-UDD-SVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

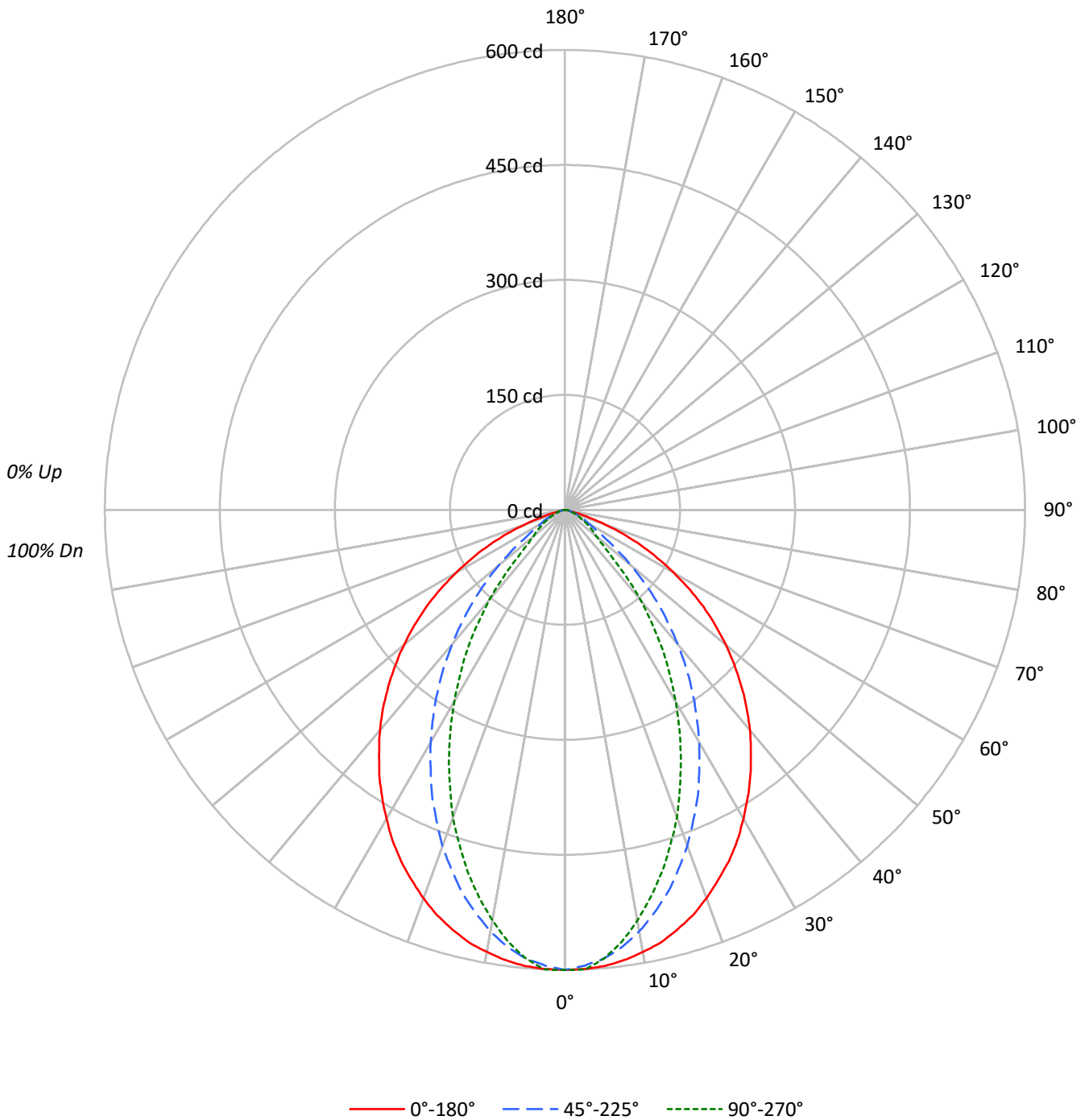
Lumens per Lamp: N/A
Luminaire Lumens: 868.2 lumens
Efficiency: N/A
Efficacy: 33.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
Input Voltage (V): 120
Input Current (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

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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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90				
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80				
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71				
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63				
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57				
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52				
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47				
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43				
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39				
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4133	4133	4133
5°	4128	4060	4060
10°	4096	3904	3803
15°	4040	3687	3486
20°	3952	3420	3130
25°	3842	3118	2718
30°	3699	2783	2292
35°	3545	2437	1859
40°	3373	2056	1378
45°	3171	1649	832
50°	2933	1209	572
55°	2646	742	477
60°	2247	504	379
65°	1777	384	298
70°	1121	276	246
75°	364	202	202
80°	123	151	182
85°	63	118	118

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3171 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.5	6.4
10°-20°	146.6	16.9
20°-30°	192.9	22.2
30°-40°	189.5	21.8
40°-50°	143.4	16.5
50°-60°	86.9	10.0
60°-70°	41.0	4.7
70°-80°	10.7	1.2
80°-90°	1.6	0.2
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°	395.0	45.5
0°-40°	584.5	67.3
0°-60°	814.8	93.9
0°-90°	868.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	868.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	600	600	600	600	600	
5°	597	596	587	588	587	57
15°	567	552	517	497	489	160
25°	506	468	410	372	358	232
35°	422	365	290	239	221	263
45°	326	256	169	108	85	251
55°	220	151	62	42	40	196
65°	109	56	24	20	18	108
75°	14	9	8	8	8	21
85°	1	1	2	2	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	600.3	600.3	600.3	600.3	600.3
2.5°	599.6	599.6	595.0	600.3	600.3
5°	597.3	595.7	587.4	588.1	587.4
7.5°	592.7	589.6	575.1	571.3	568.3
10°	585.8	579.7	558.4	549.2	543.9
12.5°	578.2	567.5	538.5	525.6	517.2
15°	566.8	551.5	517.2	497.3	489.0
17.5°	554.6	532.4	492.0	468.4	457.7
20°	539.3	513.4	466.8	437.8	427.2
22.5°	522.5	492.0	437.8	405.8	391.3
25°	505.7	467.6	410.4	372.2	357.8
27.5°	486.7	443.2	379.1	339.4	323.4
30°	465.3	418.8	350.1	308.9	288.3
32.5°	443.9	393.6	319.6	274.6	254.0
35°	421.8	365.4	289.9	238.8	221.2
37.5°	398.2	338.7	259.4	206.0	185.4
40°	375.3	312.0	228.8	172.4	153.3
42.5°	350.9	285.3	198.3	139.6	118.2
45°	325.7	256.3	169.3	107.6	85.4
47.5°	299.8	230.4	140.4	79.3	64.1
50°	273.8	202.9	112.9	58.7	53.4
52.5°	247.1	176.2	85.4	48.8	46.5
55°	220.4	151.0	61.8	42.0	39.7
57.5°	193.0	123.6	46.5	35.9	33.6
60°	163.2	99.2	36.6	29.7	27.5
62.5°	135.8	77.8	29.7	24.4	22.9
65°	109.1	55.7	23.6	19.8	18.3
67.5°	81.6	37.4	18.3	15.3	15.3
70°	55.7	24.4	13.7	12.2	12.2
72.5°	33.6	14.5	9.9	9.9	9.9
75°	13.7	9.2	7.6	7.6	7.6
77.5°	4.6	5.3	5.3	6.1	6.1
80°	3.1	3.1	3.8	4.6	4.6
82.5°	1.5	2.3	2.3	3.1	3.1
85°	0.8	0.8	1.5	1.5	1.5
87.5°	0.0	0.0	0.0	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)