

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: P1061806

Luminaire Tested: S125RDR-S850D930-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061806
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-S850D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

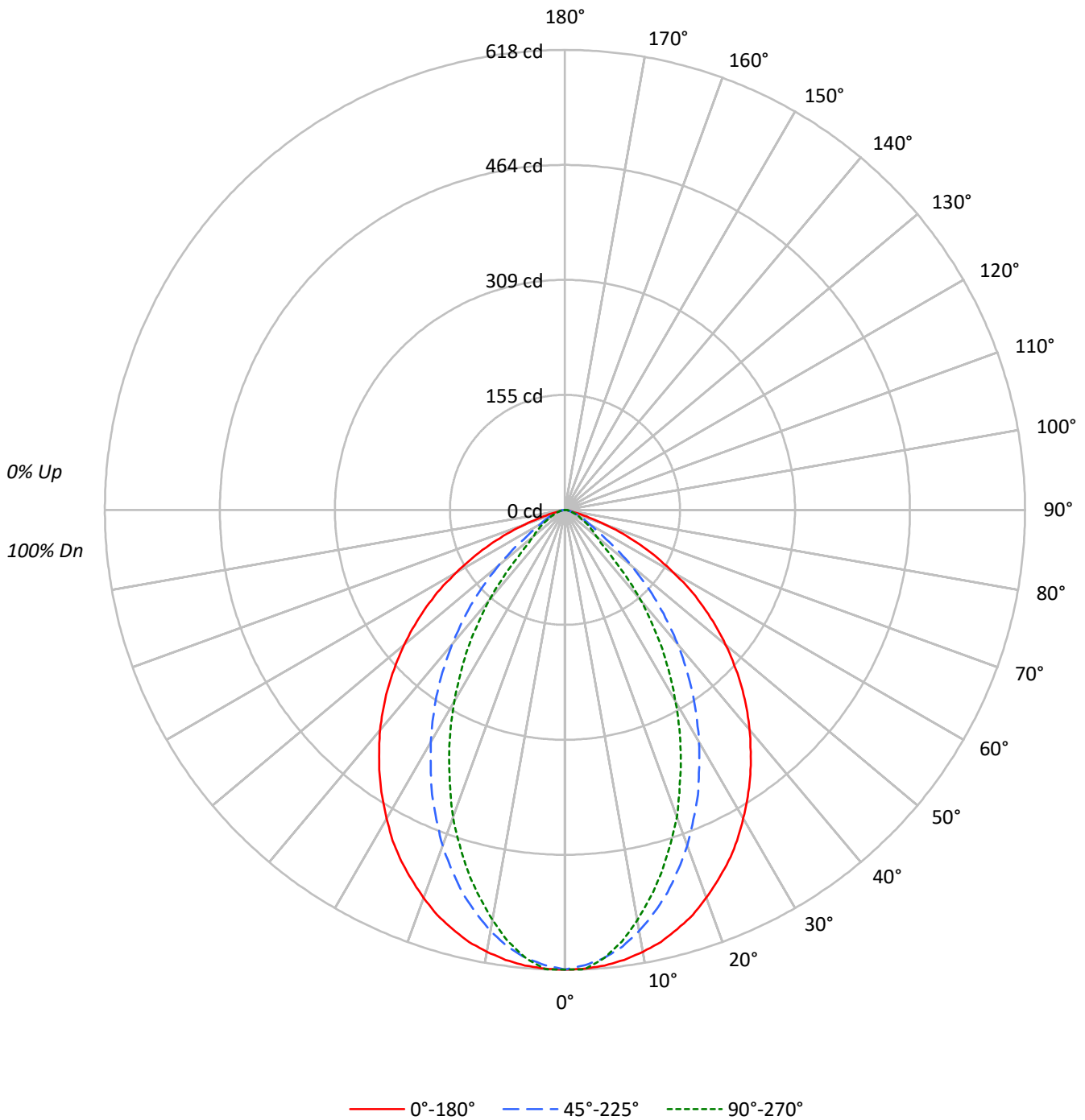
Lumens per Lamp: N/A
Luminaire Lumens: 893.5 lumens
Efficiency: N/A
Efficacy: 34.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4254	4254	4254
5°	4249	4178	4178
10°	4215	4018	3913
15°	4158	3794	3587
20°	4067	3521	3221
25°	3954	3209	2797
30°	3807	2865	2360
35°	3649	2507	1914
40°	3471	2117	1418
45°	3264	1697	856
50°	3019	1245	589
55°	2724	763	490
60°	2313	519	390
65°	1830	396	306
70°	1154	284	254
75°	375	210	210
80°	123	155	186
85°	63	126	126

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3264 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	6.4
10°-20°	150.9	16.9
20°-30°	198.5	22.2
30°-40°	195.0	21.8
40°-50°	147.6	16.5
50°-60°	89.5	10.0
60°-70°	42.2	4.7
70°-80°	11.0	1.2
80°-90°	1.7	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°	406.5	45.5
0°-40°	601.6	67.3
0°-60°	838.6	93.9
0°-90°	893.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	893.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	618	618	618	618	618	
5°	615	613	604	605	604	58
15°	583	568	532	512	503	164
25°	520	481	422	383	368	239
35°	434	376	298	246	228	271
45°	335	264	174	111	88	258
55°	227	155	64	43	41	202
65°	112	57	24	20	19	111
75°	14	9	8	8	8	22
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°	617.8	617.8	617.8	617.8	617.8
2.5°	617.1	617.1	612.3	617.8	617.8
5°	614.7	613.1	604.5	605.3	604.5
7.5°	610.0	606.8	591.9	588.0	584.9
10°	602.9	596.6	574.7	565.2	559.7
12.5°	595.1	584.1	554.2	540.9	532.3
15°	583.3	567.6	532.3	511.9	503.2
17.5°	570.7	548.0	506.4	482.0	471.0
20°	555.0	528.3	480.5	450.6	439.6
22.5°	537.8	506.4	450.6	417.6	402.7
25°	520.5	481.2	422.4	383.1	368.2
27.5°	500.9	456.1	390.2	349.3	332.9
30°	478.9	431.0	360.3	317.9	296.8
32.5°	456.9	405.1	328.9	282.6	261.4
35°	434.1	376.0	298.3	245.7	227.7
37.5°	409.8	348.6	266.9	212.0	190.8
40°	386.2	321.1	235.5	177.4	157.8
42.5°	361.1	293.6	204.1	143.7	121.7
45°	335.2	263.8	174.3	110.7	87.9
47.5°	308.5	237.1	144.5	81.6	65.9
50°	281.8	208.8	116.2	60.4	55.0
52.5°	254.4	181.3	87.9	50.2	47.9
55°	226.9	155.4	63.6	43.2	40.8
57.5°	198.6	127.2	47.9	36.9	34.5
60°	168.0	102.1	37.7	30.6	28.3
62.5°	139.7	80.1	30.6	25.1	23.6
65°	112.3	57.3	24.3	20.4	18.8
67.5°	84.0	38.5	18.8	15.7	15.7
70°	57.3	25.1	14.1	12.6	12.6
72.5°	34.5	14.9	10.2	10.2	10.2
75°	14.1	9.4	7.9	7.9	7.9
77.5°	4.7	5.5	5.5	6.3	6.3
80°	3.1	3.1	3.9	4.7	4.7
82.5°	1.6	2.4	2.4	3.1	3.1
85°	0.8	0.8	1.6	1.6	1.6
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)