

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: P1061731

Luminaire Tested: S125RDR-S610D935-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061731
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-48)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S610D935-X4F0-XX-UDD-BVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

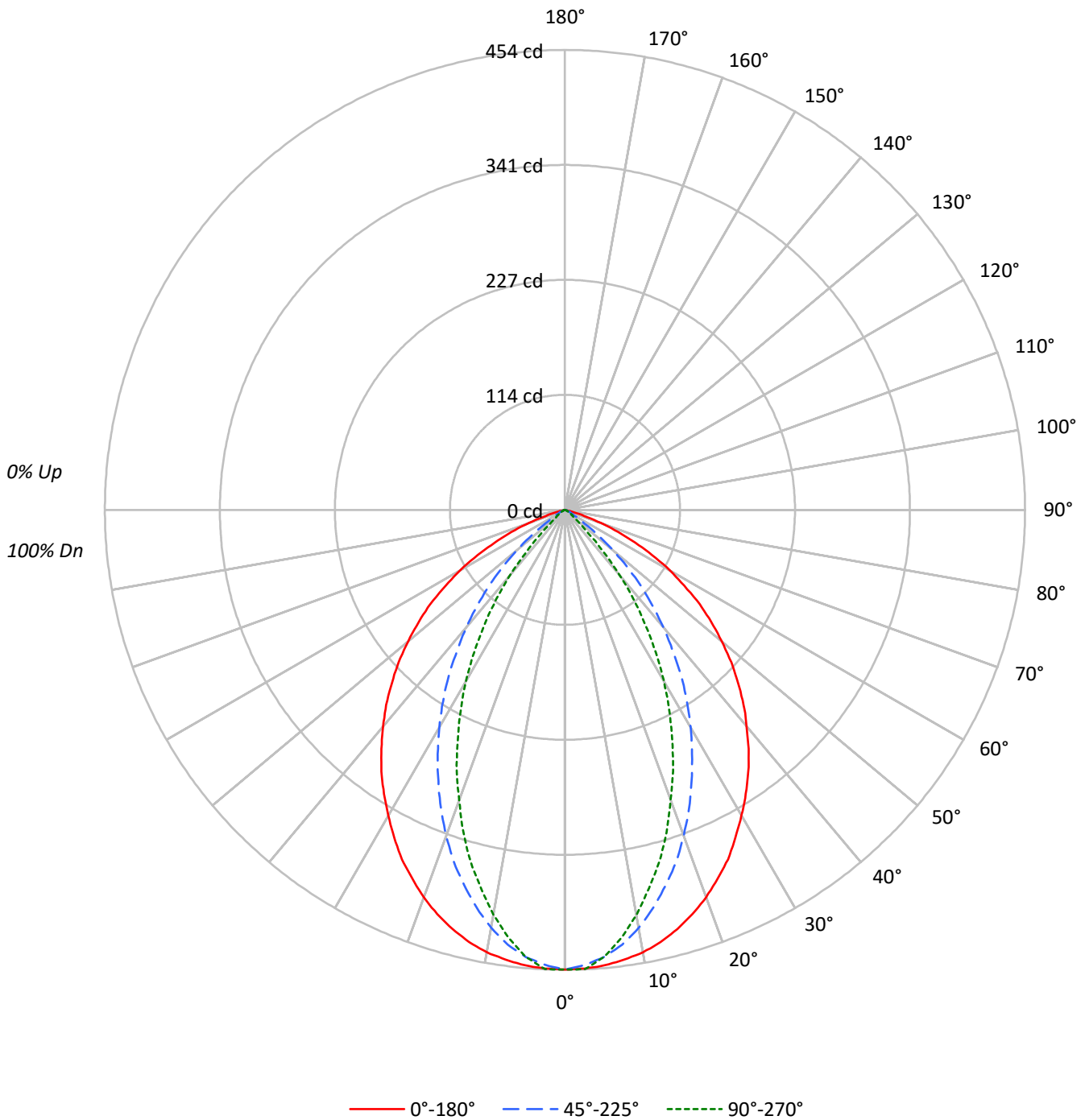
Lumens per Lamp: N/A
Luminaire Lumens: 586.3 lumens
Efficiency: N/A
Efficacy: 29.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3125	3125	3125
5°	3120	3062	3062
10°	3101	2930	2838
15°	3055	2735	2565
20°	2983	2509	2233
25°	2892	2246	1901
30°	2770	1970	1552
35°	2652	1681	1162
40°	2508	1356	753
45°	2350	1026	326
50°	2161	654	122
55°	1947	287	86
60°	1648	124	58
65°	1248	78	29
70°	759	36	12
75°	160	16	16
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2350 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.8	7.1
10°-20°	109.0	18.6
20°-30°	140.0	23.9
30°-40°	131.8	22.5
40°-50°	92.1	15.7
50°-60°	49.2	8.4
60°-70°	19.6	3.4
70°-80°	2.5	0.4
80°-90°	0.0	0.0
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°	290.9	49.6
0°-40°	422.7	72.1
0°-60°	564.1	96.2
0°-90°	586.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	586.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	454	454	454	454	454	
5°	451	450	443	444	443	43
15°	429	415	384	366	360	121
25°	381	347	296	263	250	175
35°	316	265	200	154	138	197
45°	241	181	105	51	34	186
55°	162	99	24	8	7	144
65°	77	30	5	2	2	76
75°	6	2	1	1	1	12
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	453.8	453.8	453.8	453.8	453.8
2.5°	453.2	453.8	449.6	453.2	453.8
5°	451.4	450.2	443.0	444.2	443.0
7.5°	447.8	444.8	432.8	428.6	426.2
10°	443.6	437.0	419.1	410.1	405.9
12.5°	437.0	427.4	402.3	388.5	382.5
15°	428.6	414.9	383.7	365.8	359.8
17.5°	418.5	400.5	364.6	342.4	333.5
20°	407.1	383.1	342.4	316.1	304.7
22.5°	393.9	366.4	319.7	290.3	279.0
25°	380.7	347.2	295.7	263.4	250.2
27.5°	364.6	327.5	271.8	237.1	222.7
30°	348.4	307.7	247.8	210.1	195.2
32.5°	332.3	286.8	223.9	182.0	167.0
35°	315.5	265.2	200.0	154.5	138.3
37.5°	297.5	243.7	174.2	128.1	111.4
40°	279.0	222.7	150.9	102.4	83.8
42.5°	261.0	201.7	127.5	77.2	56.9
45°	241.3	180.8	105.4	50.9	33.5
47.5°	222.7	160.4	82.6	29.3	17.4
50°	201.7	139.5	61.1	15.6	11.4
52.5°	182.0	119.1	40.7	10.2	9.0
55°	162.2	99.4	23.9	8.4	7.2
57.5°	139.5	80.2	13.2	6.6	5.4
60°	119.7	62.9	9.0	4.8	4.2
62.5°	97.0	46.1	6.6	3.6	3.0
65°	76.6	30.5	4.8	2.4	1.8
67.5°	56.9	18.0	3.0	1.2	1.2
70°	37.7	9.6	1.8	0.6	0.6
72.5°	19.8	4.2	1.2	0.6	0.6
75°	6.0	1.8	0.6	0.6	0.6
77.5°	0.0	0.6	0.0	0.0	0.6
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)