

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: P1061689

Luminaire Tested: S125RDR-S610D835-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061689
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-S610D835-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

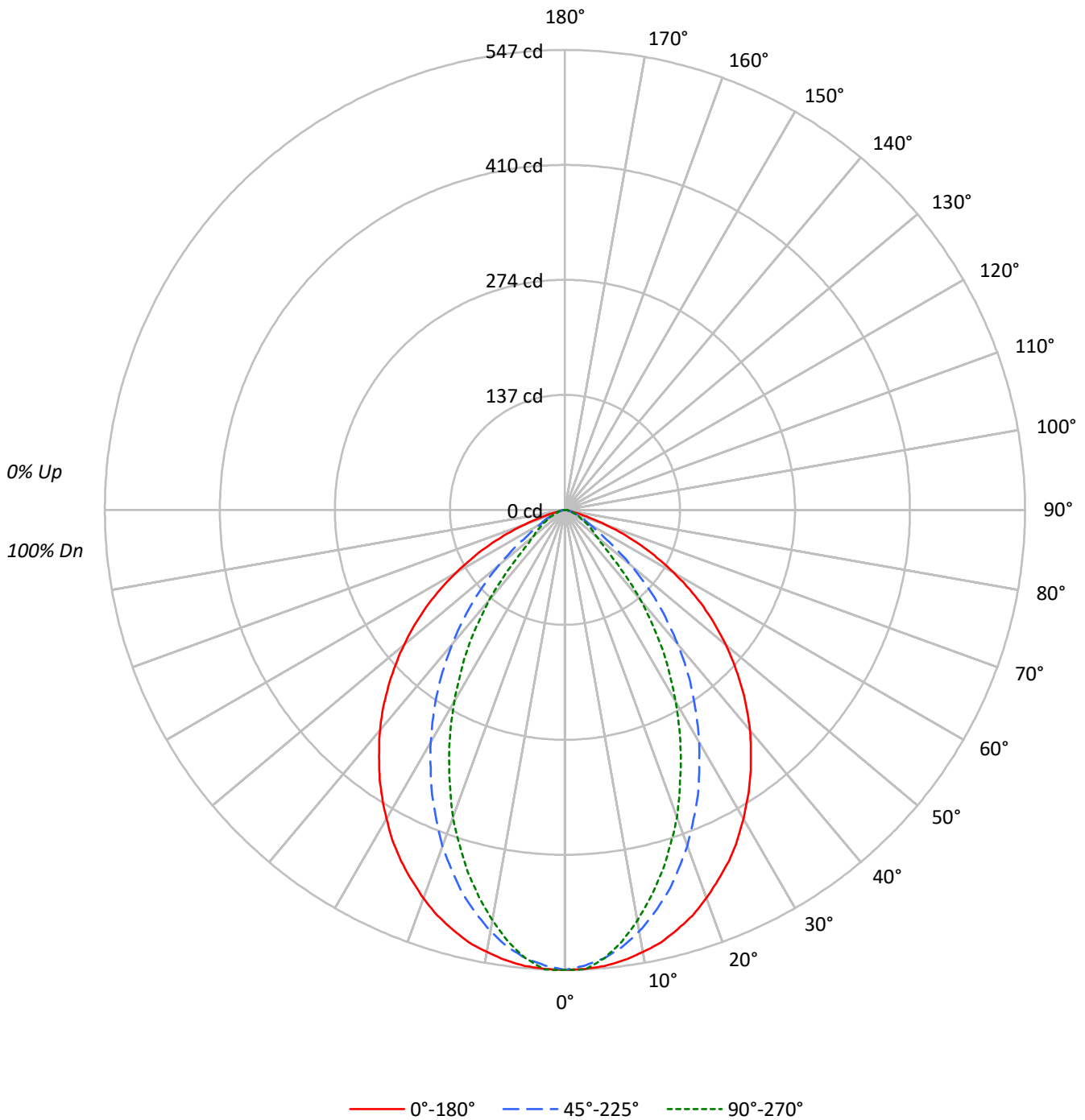
Lumens per Lamp: N/A
Luminaire Lumens: 791.4 lumens
Efficiency: N/A
Efficacy: 40.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3768	3768	3768
5°	3763	3700	3700
10°	3733	3559	3466
15°	3682	3361	3177
20°	3602	3118	2853
25°	3502	2842	2477
30°	3373	2538	2089
35°	3232	2221	1695
40°	3075	1875	1257
45°	2891	1503	759
50°	2674	1102	522
55°	2413	676	435
60°	2049	460	344
65°	1619	352	272
70°	1023	252	223
75°	333	186	186
80°	111	139	167
85°	55	111	111

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2891 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.6	6.4
10°-20°	133.7	16.9
20°-30°	175.8	22.2
30°-40°	172.8	21.8
40°-50°	130.7	16.5
50°-60°	79.2	10.0
60°-70°	37.4	4.7
70°-80°	9.8	1.2
80°-90°	1.5	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°	360.1	45.5
0°-40°	532.8	67.3
0°-60°	742.8	93.9
0°-90°	791.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	791.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	547	547	547	547	547	
5°	544	543	535	536	535	52
15°	517	503	472	453	446	146
25°	461	426	374	339	326	212
35°	384	333	264	218	202	240
45°	297	234	154	98	78	229
55°	201	138	56	38	36	179
65°	99	51	22	18	17	98
75°	12	8	7	7	7	19
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	547.2	547.2	547.2	547.2	547.2
2.5°	546.5	546.5	542.4	547.2	547.2
5°	544.5	543.1	535.4	536.1	535.4
7.5°	540.3	537.5	524.3	520.8	518.0
10°	534.0	528.5	509.0	500.7	495.8
12.5°	527.1	517.3	490.9	479.1	471.5
15°	516.6	502.7	471.5	453.4	445.7
17.5°	505.5	485.4	448.5	426.9	417.2
20°	491.6	468.0	425.6	399.1	389.4
22.5°	476.3	448.5	399.1	369.9	356.7
25°	461.0	426.3	374.1	339.3	326.1
27.5°	443.6	404.0	345.6	309.4	294.8
30°	424.2	381.7	319.2	281.6	262.8
32.5°	404.7	358.8	291.4	250.3	231.6
35°	384.5	333.1	264.2	217.6	201.7
37.5°	363.0	308.7	236.4	187.7	169.0
40°	342.1	284.4	208.6	157.2	139.8
42.5°	319.9	260.1	180.8	127.2	107.8
45°	296.9	233.6	154.4	98.0	77.9
47.5°	273.3	210.0	127.9	72.3	58.4
50°	249.6	185.0	102.9	53.5	48.7
52.5°	225.3	160.6	77.9	44.5	42.4
55°	201.0	137.7	56.3	38.2	36.2
57.5°	175.9	112.6	42.4	32.7	30.6
60°	148.8	90.4	33.4	27.1	25.0
62.5°	123.8	70.9	27.1	22.3	20.9
65°	99.4	50.8	21.6	18.1	16.7
67.5°	74.4	34.1	16.7	13.9	13.9
70°	50.8	22.3	12.5	11.1	11.1
72.5°	30.6	13.2	9.0	9.0	9.0
75°	12.5	8.3	7.0	7.0	7.0
77.5°	4.2	4.9	4.9	5.6	5.6
80°	2.8	2.8	3.5	4.2	4.2
82.5°	1.4	2.1	2.1	2.8	2.8
85°	0.7	0.7	1.4	1.4	1.4
87.5°	0.0	0.0	0.0	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)