

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: P1061734

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061734
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-S610D935-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, 90 CRI LEDS
Ballast/Driver: -

Summary

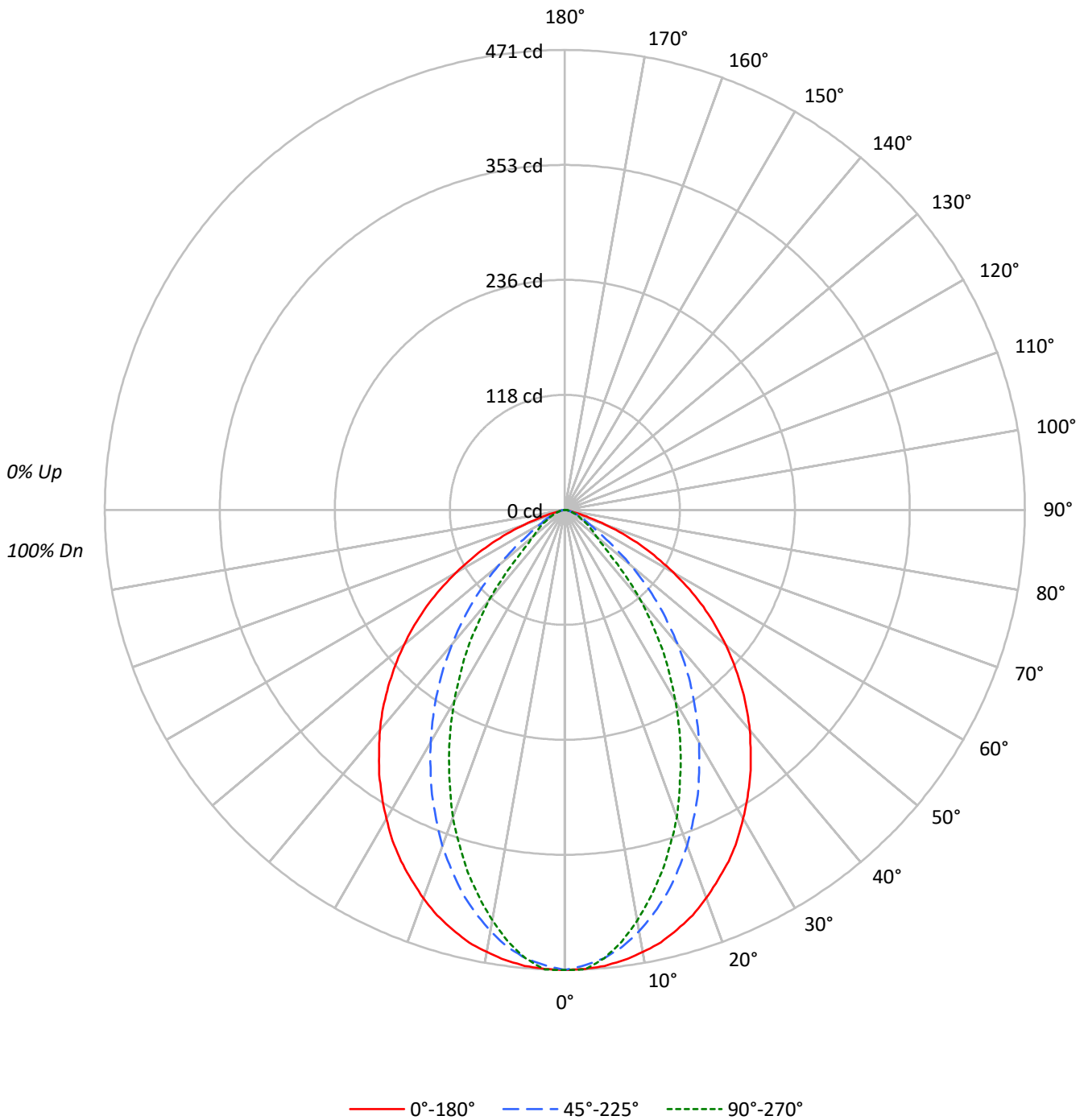
Lumens per Lamp: N/A
Luminaire Lumens: 681.5 lumens
Efficiency: N/A
Efficacy: 34.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	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°	3244	3244	3244
5°	3240	3186	3186
10°	3215	3064	2985
15°	3171	2893	2736
20°	3102	2685	2457
25°	3015	2447	2133
30°	2903	2185	1799
35°	2783	1912	1459
40°	2648	1614	1081
45°	2489	1294	653
50°	2302	949	449
55°	2077	582	373
60°	1764	395	297
65°	1395	303	235
70°	880	217	193
75°	287	160	160
80°	95	119	143
85°	47	95	95

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2489 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	6.4
10°-20°	115.1	16.9
20°-30°	151.4	22.2
30°-40°	148.7	21.8
40°-50°	112.5	16.5
50°-60°	68.2	10.0
60°-70°	32.2	4.7
70°-80°	8.4	1.2
80°-90°	1.3	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°	310.0	45.5
0°-40°	458.8	67.3
0°-60°	639.5	93.8
0°-90°	681.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	681.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	471	471	471	471	471	
5°	469	468	461	462	461	44
15°	445	433	406	390	384	125
25°	397	367	322	292	281	182
35°	331	287	228	187	174	207
45°	256	201	133	84	67	197
55°	173	118	48	33	31	154
65°	86	44	19	16	14	84
75°	11	7	6	6	6	17
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°	471.2	471.2	471.2	471.2	471.2
2.5°	470.6	470.6	467.0	471.2	471.2
5°	468.8	467.6	461.0	461.6	461.0
7.5°	465.2	462.8	451.4	448.4	446.0
10°	459.8	455.0	438.2	431.1	426.9
12.5°	453.8	445.4	422.7	412.5	405.9
15°	444.8	432.9	405.9	390.4	383.8
17.5°	435.3	417.9	386.2	367.6	359.2
20°	423.3	402.9	366.4	343.7	335.3
22.5°	410.1	386.2	343.7	318.5	307.1
25°	396.9	367.0	322.1	292.2	280.8
27.5°	382.0	347.8	297.6	266.4	253.8
30°	365.2	328.7	274.8	242.5	226.3
32.5°	348.4	308.9	250.9	215.5	199.4
35°	331.1	286.8	227.5	187.4	173.6
37.5°	312.5	265.8	203.6	161.6	145.5
40°	294.6	244.9	179.6	135.3	120.3
42.5°	275.4	223.9	155.7	109.6	92.8
45°	255.6	201.2	132.9	84.4	67.1
47.5°	235.3	180.8	110.2	62.3	50.3
50°	214.9	159.3	88.6	46.1	41.9
52.5°	194.0	138.3	67.1	38.3	36.5
55°	173.0	118.5	48.5	32.9	31.1
57.5°	151.5	97.0	36.5	28.1	26.3
60°	128.1	77.8	28.7	23.3	21.6
62.5°	106.6	61.1	23.3	19.2	18.0
65°	85.6	43.7	18.6	15.6	14.4
67.5°	64.1	29.3	14.4	12.0	12.0
70°	43.7	19.2	10.8	9.6	9.6
72.5°	26.3	11.4	7.8	7.8	7.8
75°	10.8	7.2	6.0	6.0	6.0
77.5°	3.6	4.2	4.2	4.8	4.8
80°	2.4	2.4	3.0	3.6	3.6
82.5°	1.2	1.8	1.8	2.4	2.4
85°	0.6	0.6	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)