

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: P1061719

Luminaire Tested: S125RDR-S610D927-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061719
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-46)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S610D927-X4F0-XX-UDD-WVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

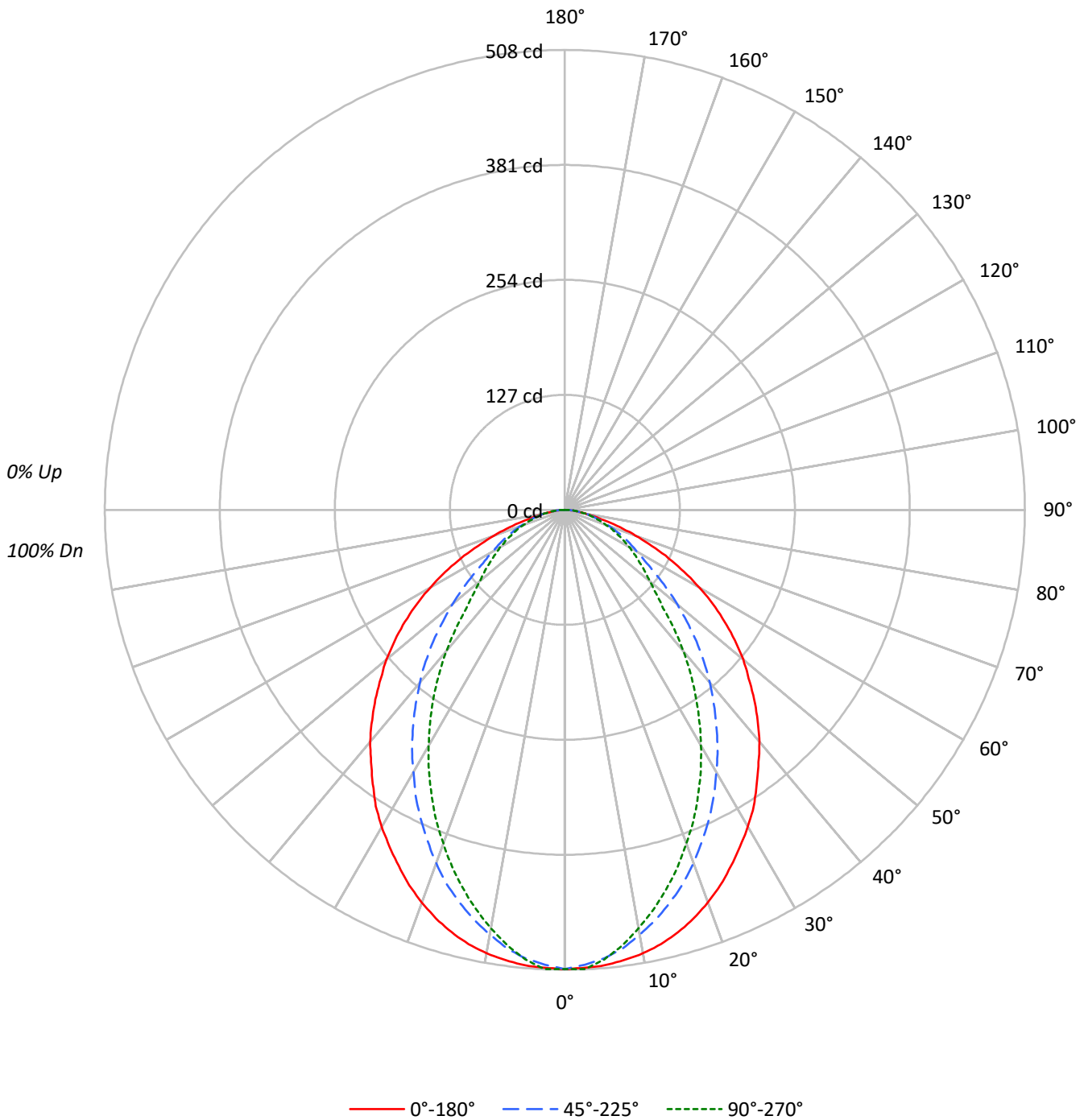
Lumens per Lamp: N/A
Luminaire Lumens: 961.1 lumens
Efficiency: N/A
Efficacy: 49.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87				87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75				75
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65				65
4	86	75	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57				57
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50				50
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45				45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40				40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36				36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33				33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30				30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3493	3493	3493
5°	3491	3438	3445
10°	3478	3331	3281
15°	3444	3200	3090
20°	3382	3043	2874
25°	3298	2863	2645
30°	3214	2659	2391
35°	3107	2454	2121
40°	3006	2238	1827
45°	2880	2001	1497
50°	2755	1734	1310
55°	2586	1448	1210
60°	2359	1267	1131
65°	2064	1158	1049
70°	1675	1043	976
75°	1202	952	910
80°	829	852	852
85°	608	743	782

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2880 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.2	4.9
10°-20°	127.6	13.3
20°-30°	176.3	18.3
30°-40°	187.8	19.5
40°-50°	165.0	17.2
50°-60°	125.1	13.0
60°-70°	81.2	8.5
70°-80°	40.3	4.2
80°-90°	10.5	1.1
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°	351.1	36.5
0°-40°	538.9	56.1
0°-60°	829.0	86.3
0°-90°	961.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	961.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	507	507	507	507	507	
5°	505	504	497	499	498	48
15°	483	472	449	438	434	136
25°	434	410	377	358	348	200
35°	370	336	292	266	252	231
45°	296	254	206	169	154	228
55°	215	173	121	104	101	192
65°	127	94	71	66	64	125
75°	45	40	36	35	34	50
85°	8	9	9	9	10	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	507.3	507.3	507.3	507.3	507.3
2.5°	506.2	507.3	502.9	506.8	507.9
5°	505.1	504.0	497.4	499.1	498.5
7.5°	501.8	499.6	488.6	487.5	485.3
10°	497.4	491.9	476.5	472.6	469.3
12.5°	491.3	482.5	463.8	456.1	452.2
15°	483.1	472.1	448.9	438.5	433.5
17.5°	473.2	457.7	433.5	419.2	413.7
20°	461.6	443.4	415.3	398.8	392.2
22.5°	448.9	427.4	396.0	378.4	371.3
25°	434.1	410.4	376.8	357.5	348.1
27.5°	419.2	392.7	356.4	334.9	325.0
30°	404.3	374.0	334.4	311.2	300.8
32.5°	388.3	354.7	314.0	288.6	276.5
35°	369.6	335.5	291.9	265.5	252.3
37.5°	351.4	315.1	270.5	240.7	228.0
40°	334.4	295.8	249.0	216.5	203.3
42.5°	315.1	275.4	227.5	193.3	178.5
45°	295.8	254.5	205.5	168.6	153.7
47.5°	275.4	234.7	182.3	146.0	136.1
50°	257.2	214.3	161.9	128.9	122.3
52.5°	236.3	194.4	141.0	115.7	111.3
55°	215.4	173.0	120.6	104.1	100.8
57.5°	193.9	153.7	104.7	94.2	90.9
60°	171.3	133.9	92.0	83.7	82.1
62.5°	148.7	113.5	81.0	74.9	72.7
65°	126.7	94.2	71.1	65.5	64.4
67.5°	104.1	76.6	61.1	57.3	56.7
70°	83.2	62.2	51.8	49.6	48.5
72.5°	63.9	49.6	43.5	41.9	41.3
75°	45.2	39.7	35.8	34.7	34.2
77.5°	30.3	30.3	28.6	27.5	28.1
80°	20.9	22.0	21.5	21.5	21.5
82.5°	13.8	14.9	15.4	15.4	15.4
85°	7.7	8.8	9.4	9.4	9.9
87.5°	2.8	3.3	3.9	4.4	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)