

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: P1175378

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

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)
Test Lab: INNOVATION CENTER
Issue Date: 8/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S610D927-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

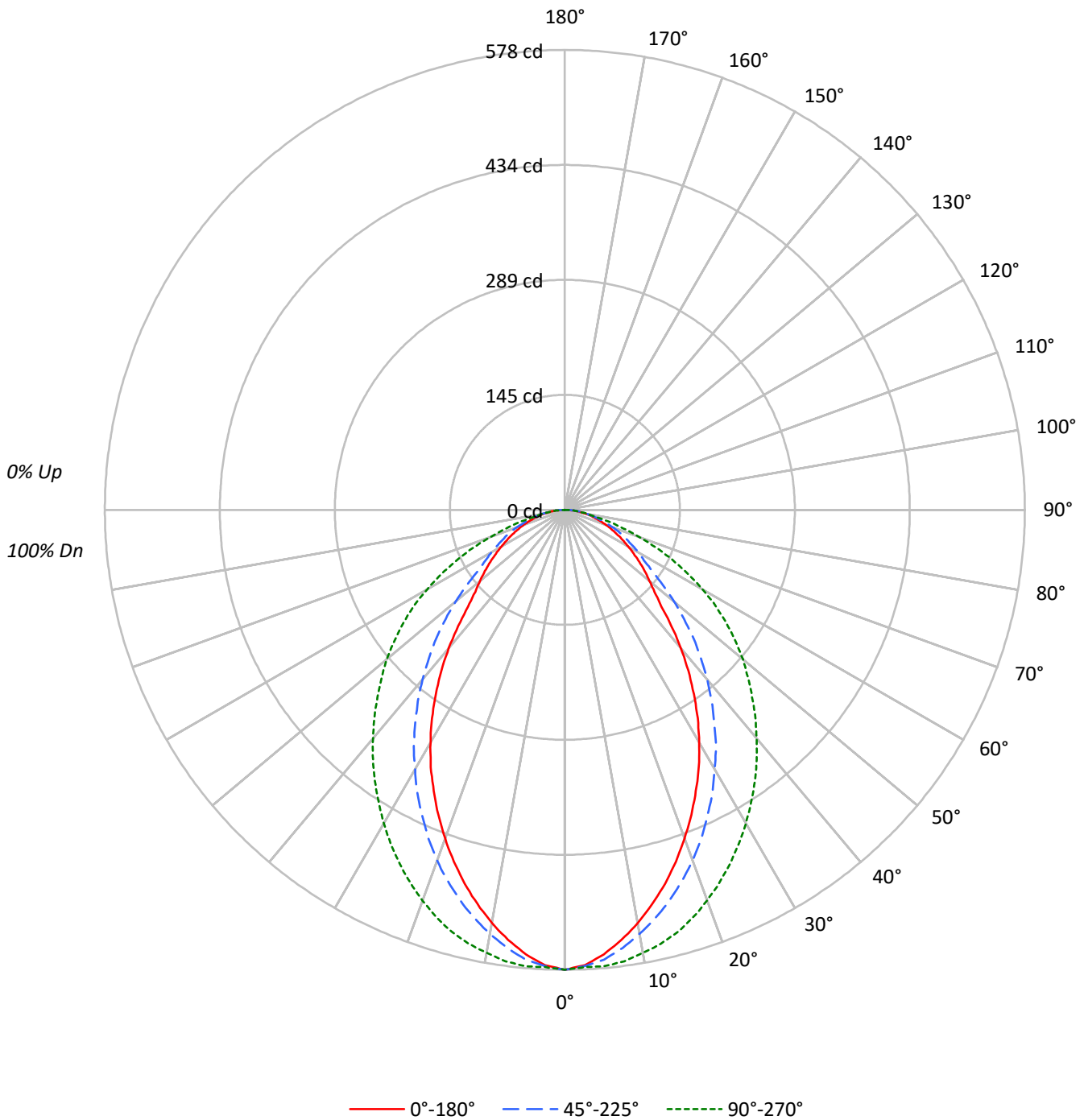
Lumens per Lamp: N/A
Luminaire Lumens: 1088.9 lumens
Efficiency: N/A
Efficacy: 55.6 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	107	104	100	97	99	97	94	96	93	91	92	90	88	86				86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74				74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64				64
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56				56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44				44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40				40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36				36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33				33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30				30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3980	3980	3980
5°	3876	3920	3978
10°	3688	3784	3952
15°	3466	3623	3914
20°	3221	3437	3829
25°	2960	3220	3728
30°	2684	2993	3617
35°	2375	2751	3497
40°	2038	2500	3370
45°	1672	2227	3240
50°	1488	1913	3128
55°	1372	1603	2969
60°	1264	1460	2750
65°	1175	1375	2431
70°	1097	1284	1985
75°	1032	1189	1487
80°	971	1090	1071
85°	893	1082	893

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3240 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.5	4.9
10°-20°	144.2	13.2
20°-30°	198.4	18.2
30°-40°	210.5	19.3
40°-50°	184.2	16.9
50°-60°	141.3	13.0
60°-70°	94.2	8.6
70°-80°	48.3	4.4
80°-90°	14.3	1.3
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°	396.2	36.4
0°-40°	606.6	55.7
0°-60°	932.2	85.6
0°-90°	1088.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1088.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	578	578	578	578	578	
5°	561	568	567	571	576	52
15°	486	498	508	532	549	136
25°	390	403	424	460	491	179
35°	283	296	327	375	416	176
45°	172	186	229	286	333	136
55°	114	117	134	198	247	103
65°	72	73	84	111	149	72
75°	39	41	45	47	56	41
85°	11	13	14	13	11	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	578.0	578.0	578.0	578.0	578.0
2.5°	572.6	578.5	574.1	574.6	575.1
5°	560.8	568.2	567.2	571.1	575.6
7.5°	545.1	553.0	555.4	565.3	572.1
10°	527.5	536.3	541.2	555.9	565.3
12.5°	507.4	517.7	525.5	544.7	558.4
15°	486.3	497.5	508.3	532.4	549.1
17.5°	463.7	475.0	489.2	516.7	536.8
20°	439.6	451.9	469.1	498.5	522.6
22.5°	415.1	427.9	447.5	479.9	507.4
25°	389.6	402.8	423.9	459.8	490.7
27.5°	364.6	376.8	401.4	439.6	473.5
30°	337.6	350.3	376.4	418.5	454.9
32.5°	310.6	323.4	353.3	397.4	435.7
35°	282.6	295.9	327.3	375.4	416.1
37.5°	254.7	268.4	303.2	352.8	396.0
40°	226.7	241.4	278.2	330.2	374.9
42.5°	198.2	213.9	252.7	308.1	354.3
45°	171.7	186.0	228.7	285.6	332.7
47.5°	152.6	160.9	203.1	262.5	312.1
50°	138.9	142.8	178.6	240.4	292.0
52.5°	126.6	129.0	154.6	219.8	269.9
55°	114.3	116.8	133.5	198.2	247.3
57.5°	102.6	104.0	117.8	176.6	224.7
60°	91.8	92.7	106.0	155.1	199.7
62.5°	81.9	82.4	94.7	133.0	174.7
65°	72.1	72.6	84.4	110.9	149.2
67.5°	63.3	63.3	74.6	90.8	124.6
70°	54.5	54.5	63.8	73.6	98.6
72.5°	46.6	47.6	54.0	59.4	77.0
75°	38.8	41.2	44.7	47.1	55.9
77.5°	31.4	34.3	35.8	36.8	37.3
80°	24.5	26.5	27.5	28.0	27.0
82.5°	18.2	19.6	20.1	20.1	18.6
85°	11.3	12.8	13.7	13.2	11.3
87.5°	5.4	7.4	7.9	6.9	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)