

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: P1061729

Luminaire Tested: S125RDR-S610D930-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S610D930-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

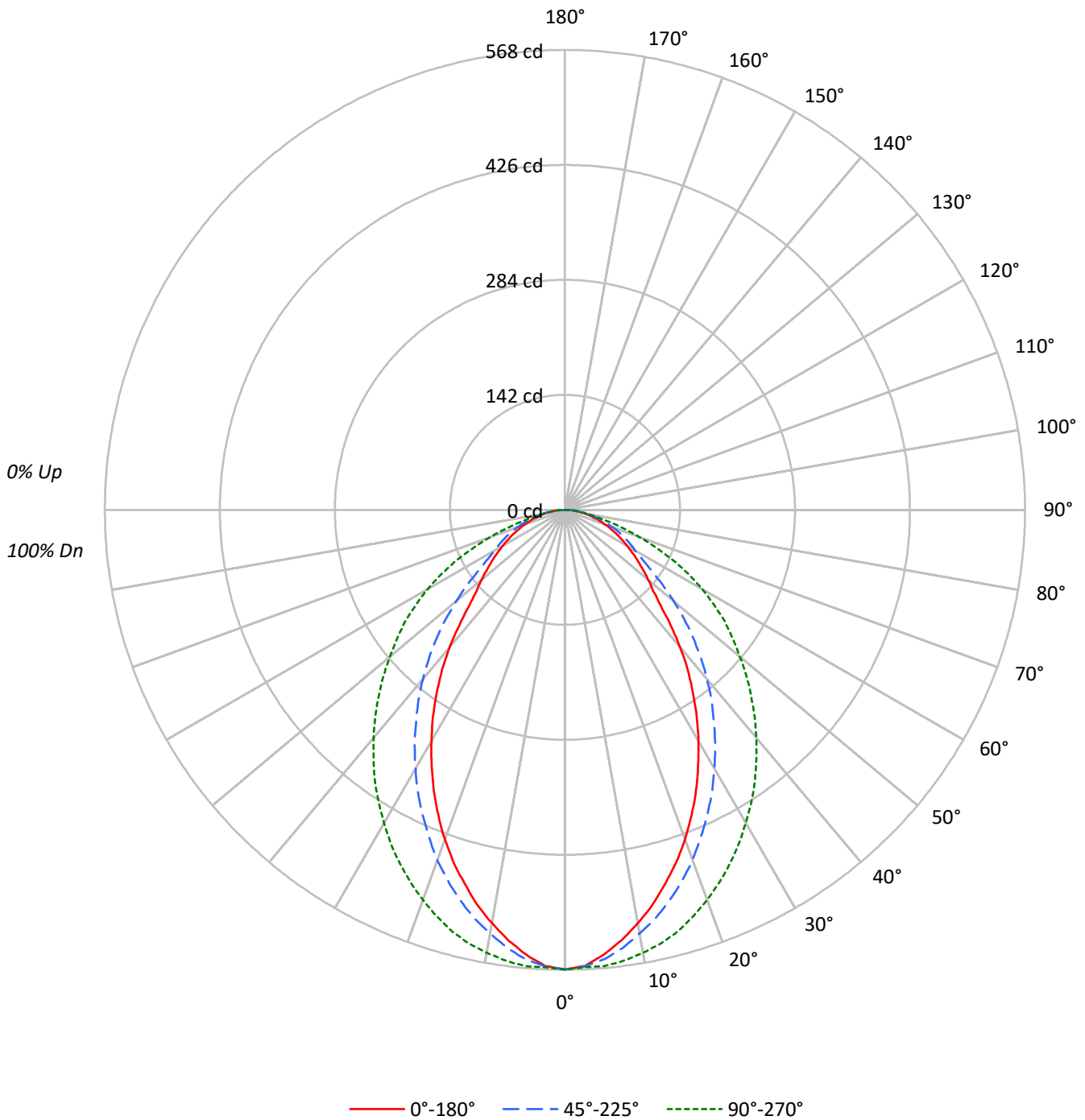
Lumens per Lamp: N/A
Luminaire Lumens: 1064.3 lumens
Efficiency: N/A
Efficacy: 54.3 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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				
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86				
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74				
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64				
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56				
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46	44				
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40				
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36				
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33				
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3909	3909	3909
5°	3810	3850	3908
10°	3624	3715	3882
15°	3408	3558	3841
20°	3175	3374	3757
25°	2908	3158	3663
30°	2620	2931	3549
35°	2317	2694	3437
40°	1988	2452	3303
45°	1623	2181	3165
50°	1440	1871	3020
55°	1320	1552	2893
60°	1219	1374	2695
65°	1137	1321	2403
70°	1061	1256	1965
75°	982	1176	1447
80°	924	1102	1059
85°	853	1074	893

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3165 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.5	4.9
10°-20°	141.5	13.3
20°-30°	194.5	18.3
30°-40°	206.1	19.4
40°-50°	179.9	16.9
50°-60°	136.7	12.8
60°-70°	91.6	8.6
70°-80°	47.2	4.4
80°-90°	14.2	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°	388.6	36.5
0°-40°	594.7	55.9
0°-60°	911.3	85.6
0°-90°	1064.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1064.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	568	568	568	568	568	
5°	551	557	557	561	566	52
15°	478	487	499	521	539	134
25°	383	395	416	450	482	175
35°	276	292	320	366	409	172
45°	167	183	224	277	325	132
55°	110	113	129	190	241	99
65°	70	72	81	108	148	69
75°	37	39	44	47	54	40
85°	11	14	14	12	11	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	567.7	567.7	567.7	567.7	567.7
2.5°	563.8	567.7	564.3	564.3	565.5
5°	551.3	557.0	557.0	560.9	565.5
7.5°	536.0	542.2	545.6	554.7	561.5
10°	518.4	525.2	531.4	545.1	555.3
12.5°	499.7	507.1	516.7	534.3	548.5
15°	478.1	487.2	499.1	521.2	538.8
17.5°	456.6	465.7	480.4	506.5	526.3
20°	433.3	443.0	460.5	488.9	512.7
22.5°	408.4	419.1	437.9	470.2	498.0
25°	382.8	394.8	415.7	450.3	482.1
27.5°	356.2	370.4	393.1	429.9	465.1
30°	329.5	343.7	368.7	408.9	446.4
32.5°	302.9	318.2	345.4	387.9	428.2
35°	275.6	291.5	320.5	365.8	408.9
37.5°	249.0	264.9	297.2	344.3	387.9
40°	221.2	237.6	272.8	322.2	367.5
42.5°	192.8	210.4	248.4	299.5	346.5
45°	166.7	183.2	224.0	277.3	325.0
47.5°	147.5	158.2	199.6	254.7	304.0
50°	134.4	140.1	174.7	232.5	281.9
52.5°	121.4	125.9	151.4	209.9	260.9
55°	110.0	113.4	129.3	190.0	241.0
57.5°	98.7	102.1	112.3	170.2	217.8
60°	88.5	91.3	99.8	149.2	195.7
62.5°	78.8	81.1	90.2	129.3	171.9
65°	69.8	71.5	81.1	108.3	147.5
67.5°	60.7	62.4	72.0	88.5	121.4
70°	52.7	53.3	62.4	72.0	97.6
72.5°	44.8	45.4	52.7	58.4	74.9
75°	36.9	39.1	44.2	47.1	54.4
77.5°	30.1	32.9	35.7	36.9	36.9
80°	23.3	26.7	27.8	27.8	26.7
82.5°	17.0	19.9	20.4	19.3	18.1
85°	10.8	13.6	13.6	12.5	11.3
87.5°	5.1	7.4	7.4	6.8	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)