

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: P1061722

Luminaire Tested: S125RDR-S610D930-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061722
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-48)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S610D930-X4F0-XX-UDD-BVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

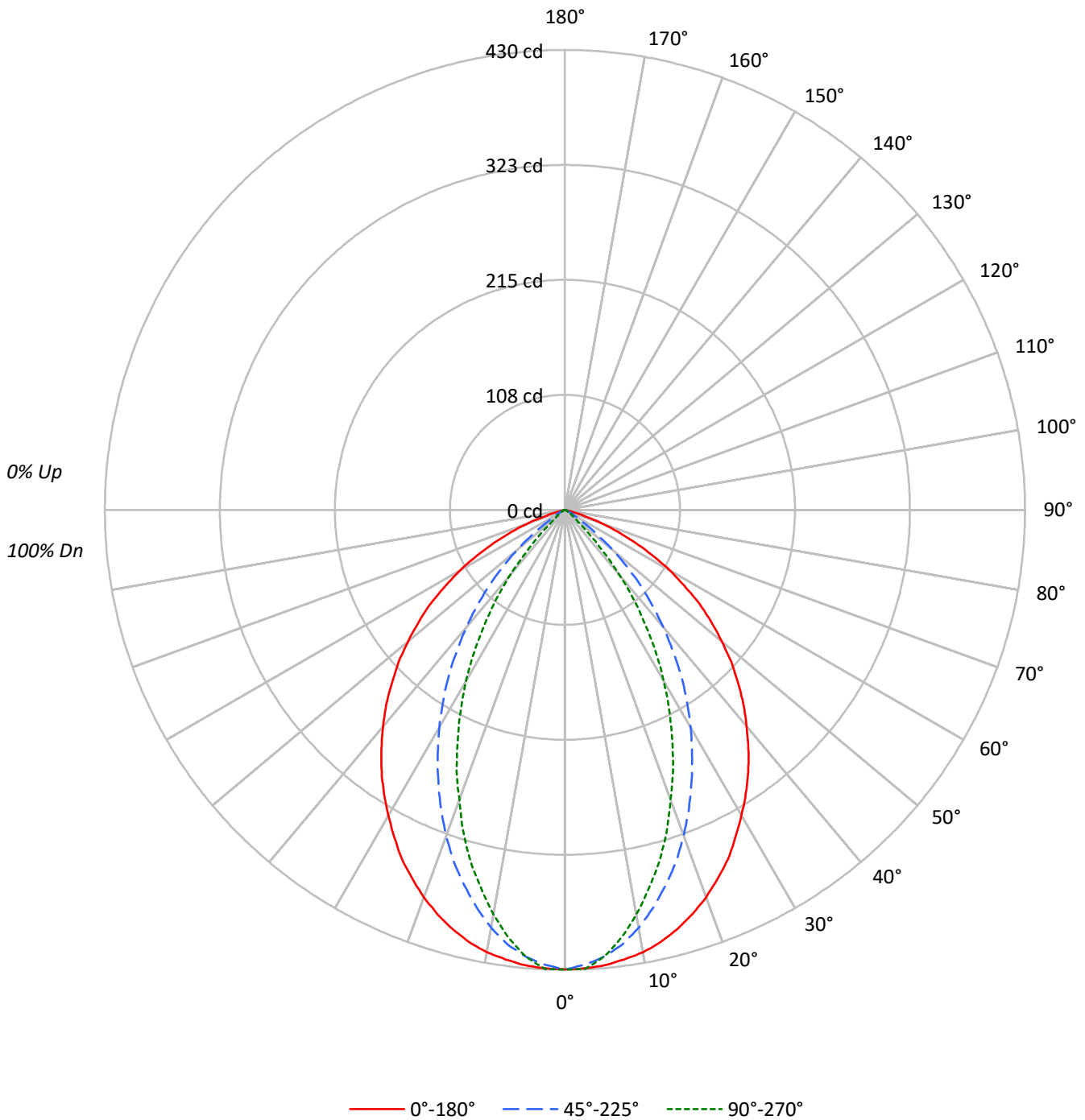
Lumens per Lamp: N/A
Luminaire Lumens: 555.1 lumens
Efficiency: N/A
Efficacy: 28.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1061722

CATALOG NUMBER: S125RDR-S610D930-X4F0-XX-UDD-BVL-B

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	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91			91	
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82			82	
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73			73	
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66			66	
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60			60	
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54			54	
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50			50	
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46			46	
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42	
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2959	2959	2959
5°	2954	2899	2899
10°	2937	2774	2687
15°	2893	2590	2429
20°	2825	2376	2114
25°	2739	2127	1800
30°	2623	1866	1469
35°	2511	1591	1101
40°	2375	1284	714
45°	2225	972	309
50°	2046	619	116
55°	1844	272	82
60°	1562	117	55
65°	1183	73	28
70°	719	34	12
75°	152	16	16
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2225 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.6	7.1
10°-20°	103.3	18.6
20°-30°	132.6	23.9
30°-40°	124.8	22.5
40°-50°	87.3	15.7
50°-60°	46.6	8.4
60°-70°	18.6	3.3
70°-80°	2.4	0.4
80°-90°	0.0	0.0
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°	275.4	49.6
0°-40°	400.2	72.1
0°-60°	534.1	96.2
0°-90°	555.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	555.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	430	430	430	430	430	
5°	427	426	420	421	420	41
15°	406	393	363	346	341	114
25°	360	329	280	249	237	165
35°	299	251	189	146	131	186
45°	228	171	100	48	32	176
55°	154	94	23	8	7	136
65°	73	29	4	2	2	72
75°	6	2	1	1	1	11
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	429.7	429.7	429.7	429.7	429.7
2.5°	429.1	429.7	425.7	429.1	429.7
5°	427.4	426.3	419.5	420.6	419.5
7.5°	424.0	421.2	409.9	405.9	403.6
10°	420.1	413.8	396.8	388.3	384.3
12.5°	413.8	404.8	380.9	367.9	362.2
15°	405.9	392.9	363.4	346.4	340.7
17.5°	396.3	379.2	345.2	324.3	315.8
20°	385.5	362.8	324.3	299.3	288.5
22.5°	373.0	346.9	302.7	274.9	264.2
25°	360.5	328.8	280.0	249.4	237.0
27.5°	345.2	310.1	257.4	224.5	210.9
30°	329.9	291.4	234.7	199.0	184.8
32.5°	314.6	271.5	212.0	172.3	158.2
35°	298.7	251.1	189.3	146.3	131.0
37.5°	281.7	230.7	165.0	121.3	105.4
40°	264.2	210.9	142.9	96.9	79.4
42.5°	247.2	191.0	120.7	73.1	53.9
45°	228.5	171.2	99.8	48.2	31.7
47.5°	210.9	151.9	78.2	27.8	16.4
50°	191.0	132.1	57.8	14.7	10.8
52.5°	172.3	112.8	38.5	9.6	8.5
55°	153.6	94.1	22.7	7.9	6.8
57.5°	132.1	76.0	12.5	6.2	5.1
60°	113.4	59.5	8.5	4.5	4.0
62.5°	91.8	43.7	6.2	3.4	2.8
65°	72.6	28.9	4.5	2.3	1.7
67.5°	53.9	17.0	2.8	1.1	1.1
70°	35.7	9.1	1.7	0.6	0.6
72.5°	18.7	4.0	1.1	0.6	0.6
75°	5.7	1.7	0.6	0.6	0.6
77.5°	0.0	0.6	0.0	0.0	0.6
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)