

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: P1061500

Luminaire Tested: S125RDR-S1090D940-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061500
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-S1090D940-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

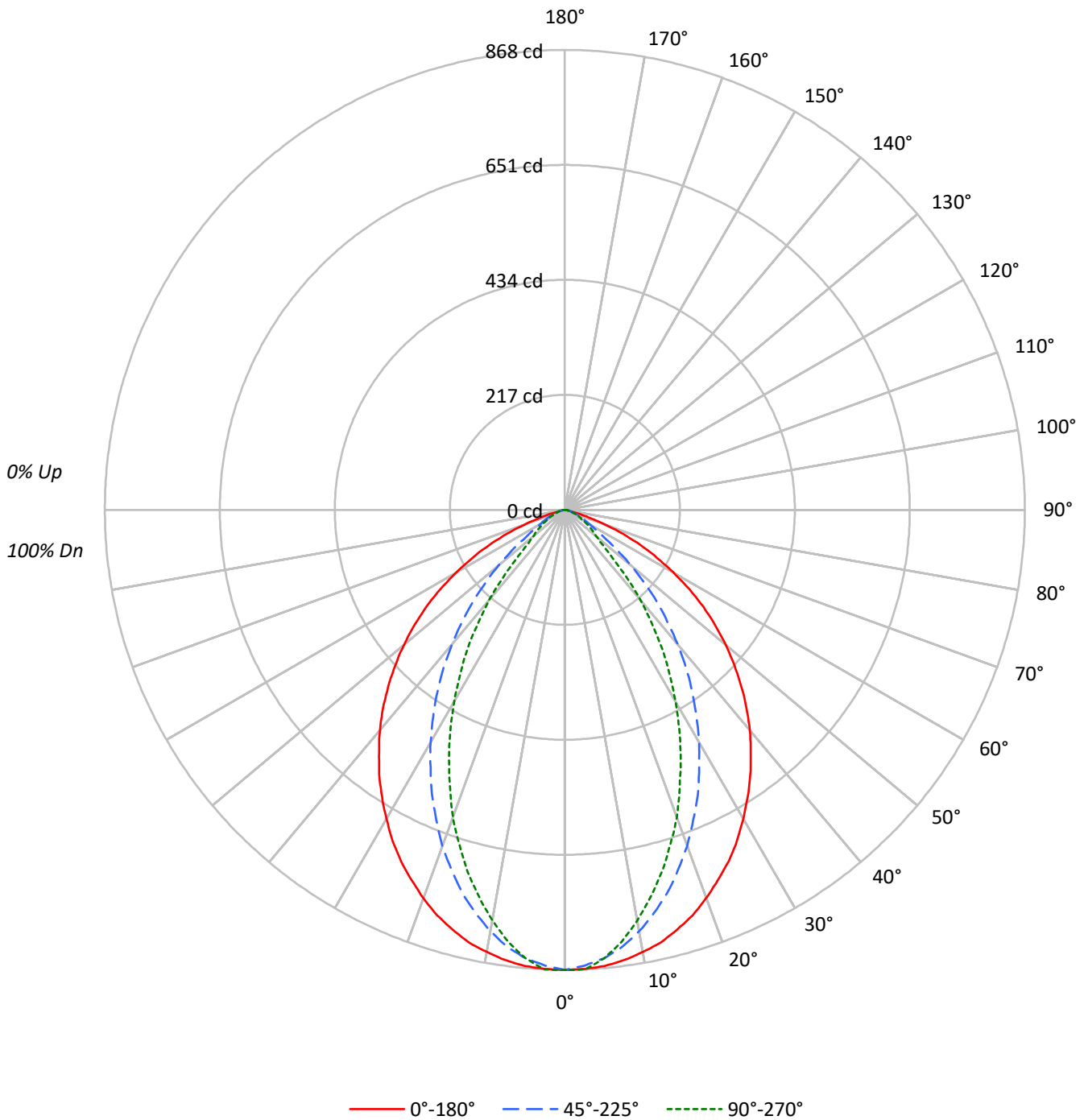
Lumens per Lamp: N/A
Luminaire Lumens: 1255.9 lumens
Efficiency: N/A
Efficacy: 35.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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°	5979	5979	5979
5°	5972	5872	5872
10°	5925	5647	5500
15°	5844	5333	5042
20°	5716	4948	4527
25°	5558	4510	3931
30°	5351	4027	3316
35°	5129	3524	2690
40°	4880	2975	1994
45°	4588	2386	1204
50°	4243	1749	827
55°	3828	1073	689
60°	3251	730	547
65°	2571	557	432
70°	1621	401	356
75°	529	293	293
80°	174	218	262
85°	87	174	174

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4588 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	6.4
10°-20°	212.1	16.9
20°-30°	279.0	22.2
30°-40°	274.1	21.8
40°-50°	207.4	16.5
50°-60°	125.8	10.0
60°-70°	59.4	4.7
70°-80°	15.5	1.2
80°-90°	2.3	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°	571.4	45.5
0°-40°	845.6	67.3
0°-60°	1178.7	93.9
0°-90°	1255.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1255.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	868	868	868	868	868	
5°	864	862	850	851	850	82
15°	820	798	748	719	707	231
25°	732	676	594	538	518	336
35°	610	528	419	345	320	381
45°	471	371	245	156	124	363
55°	319	218	89	61	57	284
65°	158	80	34	29	26	156
75°	20	13	11	11	11	31
85°	1	1	2	2	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	868.4	868.4	868.4	868.4	868.4
2.5°	867.3	867.3	860.7	868.4	868.4
5°	864.0	861.8	849.6	850.7	849.6
7.5°	857.3	852.9	832.0	826.4	822.0
10°	847.4	838.6	807.7	794.4	786.7
12.5°	836.4	820.9	779.0	760.2	748.1
15°	819.8	797.8	748.1	719.4	707.3
17.5°	802.2	770.2	711.7	677.5	662.0
20°	780.1	742.6	675.3	633.4	617.9
22.5°	755.8	711.7	633.4	587.0	566.0
25°	731.6	676.4	593.6	538.5	517.5
27.5°	704.0	641.1	548.4	491.0	467.8
30°	673.1	605.8	506.5	446.9	417.1
32.5°	642.2	569.4	462.3	397.2	367.4
35°	610.2	528.5	419.3	345.4	320.0
37.5°	576.0	489.9	375.2	297.9	268.1
40°	542.9	451.3	331.0	249.4	221.8
42.5°	507.6	412.7	286.9	201.9	171.0
45°	471.2	370.7	245.0	155.6	123.6
47.5°	433.6	333.2	203.0	114.8	92.7
50°	396.1	293.5	163.3	85.0	77.2
52.5°	357.5	254.9	123.6	70.6	67.3
55°	318.9	218.5	89.4	60.7	57.4
57.5°	279.2	178.8	67.3	51.9	48.5
60°	236.1	143.4	53.0	43.0	39.7
62.5°	196.4	112.5	43.0	35.3	33.1
65°	157.8	80.5	34.2	28.7	26.5
67.5°	118.1	54.1	26.5	22.1	22.1
70°	80.5	35.3	19.9	17.7	17.7
72.5°	48.5	21.0	14.3	14.3	14.3
75°	19.9	13.2	11.0	11.0	11.0
77.5°	6.6	7.7	7.7	8.8	8.8
80°	4.4	4.4	5.5	6.6	6.6
82.5°	2.2	3.3	3.3	4.4	4.4
85°	1.1	1.1	2.2	2.2	2.2
87.5°	0.0	0.0	0.0	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)