

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: P1061473

Luminaire Tested: S125RDR-S1090D927-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061473
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-S1090D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

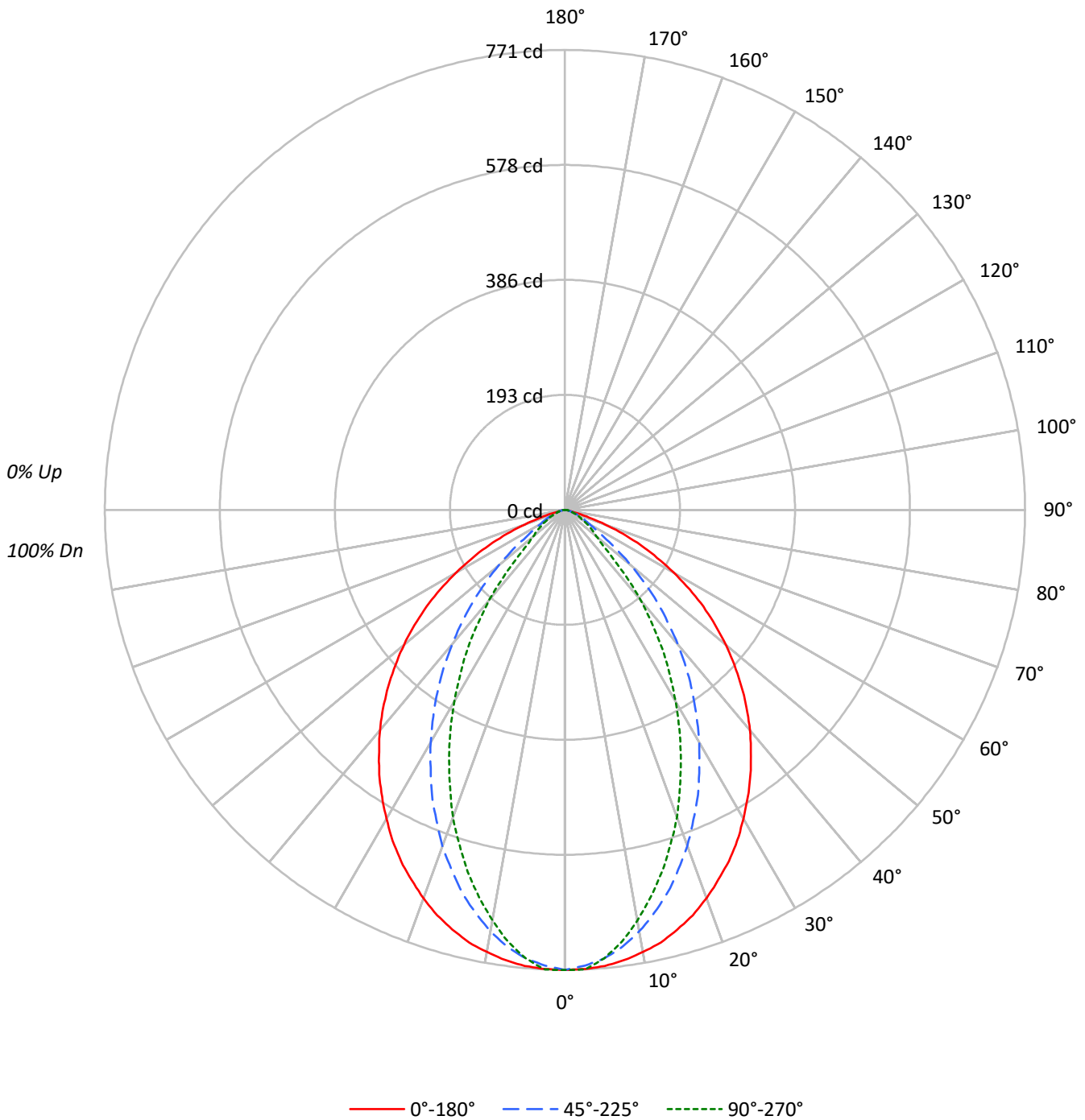
Lumens per Lamp: N/A
Luminaire Lumens: 1115.7 lumens
Efficiency: N/A
Efficacy: 31.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5311	5311	5311
5°	5305	5217	5217
10°	5263	5016	4886
15°	5191	4737	4479
20°	5078	4396	4022
25°	4937	4007	3492
30°	4754	3577	2946
35°	4557	3131	2390
40°	4335	2643	1771
45°	4076	2119	1069
50°	3769	1554	735
55°	3401	953	612
60°	2889	649	486
65°	2284	495	383
70°	1441	354	316
75°	468	261	261
80°	155	194	234
85°	79	158	158

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4076 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.4	6.4
10°-20°	188.4	16.9
20°-30°	247.8	22.2
30°-40°	243.5	21.8
40°-50°	184.2	16.5
50°-60°	111.7	10.0
60°-70°	52.7	4.7
70°-80°	13.8	1.2
80°-90°	2.1	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°	507.6	45.5
0°-40°	751.2	67.3
0°-60°	1047.1	93.9
0°-90°	1115.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1115.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	771	771	771	771	771	
5°	768	766	755	756	755	73
15°	728	709	665	639	628	205
25°	650	601	527	478	460	299
35°	542	470	372	307	284	338
45°	419	329	218	138	110	322
55°	283	194	79	54	51	252
65°	140	72	30	26	24	138
75°	18	12	10	10	10	27
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°	771.4	771.4	771.4	771.4	771.4
2.5°	770.5	770.5	764.6	771.4	771.4
5°	767.5	765.6	754.8	755.8	754.8
7.5°	761.6	757.7	739.1	734.2	730.3
10°	752.8	745.0	717.5	705.8	698.9
12.5°	743.0	729.3	692.1	675.4	664.6
15°	728.3	708.7	664.6	639.1	628.3
17.5°	712.6	684.2	632.3	601.9	588.1
20°	693.0	659.7	599.9	562.7	548.9
22.5°	671.5	632.3	562.7	521.5	502.9
25°	649.9	600.9	527.4	478.4	459.7
27.5°	625.4	569.5	487.2	436.2	415.6
30°	597.9	538.2	449.9	397.0	370.5
32.5°	570.5	505.8	410.7	352.9	326.4
35°	542.1	469.5	372.5	306.8	284.3
37.5°	511.7	435.2	333.3	264.7	238.2
40°	482.3	400.9	294.1	221.5	197.0
42.5°	450.9	366.6	254.9	179.4	151.9
45°	418.6	329.4	217.6	138.2	109.8
47.5°	385.2	296.0	180.4	101.9	82.3
50°	351.9	260.7	145.1	75.5	68.6
52.5°	317.6	226.4	109.8	62.7	59.8
55°	283.3	194.1	79.4	53.9	51.0
57.5°	248.0	158.8	59.8	46.1	43.1
60°	209.8	127.4	47.1	38.2	35.3
62.5°	174.5	100.0	38.2	31.4	29.4
65°	140.2	71.6	30.4	25.5	23.5
67.5°	104.9	48.0	23.5	19.6	19.6
70°	71.6	31.4	17.6	15.7	15.7
72.5°	43.1	18.6	12.7	12.7	12.7
75°	17.6	11.8	9.8	9.8	9.8
77.5°	5.9	6.9	6.9	7.8	7.8
80°	3.9	3.9	4.9	5.9	5.9
82.5°	2.0	2.9	2.9	3.9	3.9
85°	1.0	1.0	2.0	2.0	2.0
87.5°	0.0	0.0	0.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)