

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: P1061501

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-86)
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-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

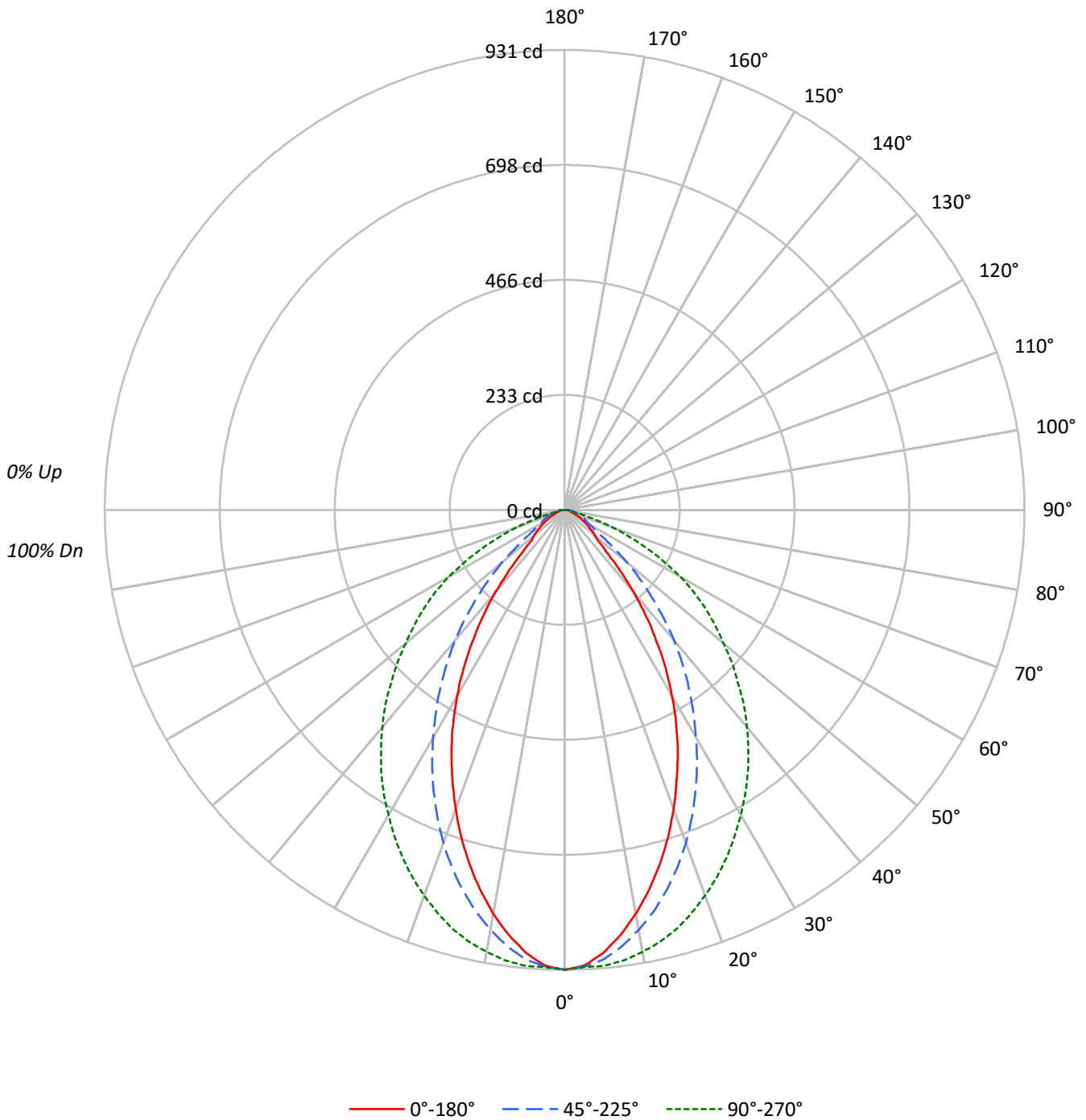
Lumens per Lamp: N/A
Luminaire Lumens: 1344.0 lumens
Efficiency: N/A
Efficacy: 38.4 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79				79
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70				70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63				63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56				56
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51				51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42				42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39				39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6409	6409	6409
5°	6220	6311	6403
10°	5805	6036	6353
15°	5297	5683	6257
20°	4725	5259	6092
25°	4118	4765	5897
30°	3458	4231	5671
35°	2728	3684	5438
40°	1955	3096	5161
45°	1150	2429	4838
50°	852	1750	4495
55°	715	1060	4175
60°	578	775	3725
65°	450	738	2986
70°	378	688	2023
75°	351	617	881
80°	349	615	571
85°	434	782	608

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4838 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	6.4
10°-20°	225.3	16.8
20°-30°	294.4	21.9
30°-40°	286.6	21.3
40°-50°	214.2	15.9
50°-60°	132.9	9.9
60°-70°	69.8	5.2
70°-80°	25.4	1.9
80°-90°	9.6	0.7
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°	605.5	45.1
0°-40°	892.1	66.4
0°-60°	1239.2	92.2
0°-90°	1344.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1344.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	931	931	931	931	931	
5°	900	912	913	919	926	84
15°	743	765	797	846	878	207
25°	542	570	627	712	776	248
35°	325	360	438	555	647	202
45°	118	155	250	390	497	99
55°	60	63	88	230	348	54
65°	28	30	45	97	183	29
75°	13	16	23	25	33	14
85°	6	10	10	10	8	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	930.8	930.8	930.8	930.8	930.8
2.5°	923.1	930.8	925.3	925.3	926.4
5°	899.9	912.0	913.1	918.7	926.4
7.5°	867.9	882.2	891.1	907.6	919.8
10°	830.3	846.9	863.4	891.1	908.7
12.5°	788.4	808.2	832.5	870.1	895.5
15°	743.1	765.2	797.2	845.8	877.8
17.5°	695.6	718.8	758.6	817.1	855.7
20°	644.8	670.2	717.7	783.9	831.4
22.5°	592.9	621.6	673.5	748.6	804.9
25°	542.1	569.7	627.2	712.2	776.2
27.5°	489.1	517.8	580.8	674.6	745.3
30°	435.0	466.0	532.2	636.0	713.3
32.5°	380.9	413.0	484.7	596.2	681.3
35°	324.6	360.0	438.3	555.4	647.0
37.5°	271.6	309.2	390.9	513.4	610.6
40°	217.5	256.2	344.5	472.6	574.2
42.5°	164.5	204.3	297.0	430.6	537.7
45°	118.1	154.6	249.5	389.8	496.9
47.5°	90.5	111.5	205.4	347.8	460.4
50°	79.5	86.1	163.4	307.0	419.6
52.5°	69.6	74.0	121.5	267.2	384.2
55°	59.6	62.9	88.3	229.7	347.8
57.5°	50.8	54.1	67.4	195.4	310.3
60°	42.0	45.3	56.3	161.2	270.5
62.5°	35.3	36.4	50.8	129.2	226.4
65°	27.6	29.8	45.3	97.2	183.3
67.5°	23.2	24.3	39.7	69.6	141.3
70°	18.8	19.9	34.2	48.6	100.5
72.5°	16.6	16.6	28.7	35.3	64.0
75°	13.2	15.5	23.2	25.4	33.1
77.5°	11.0	15.5	19.9	18.8	17.7
80°	8.8	14.4	15.5	15.5	14.4
82.5°	7.7	12.1	13.2	12.1	11.0
85°	5.5	9.9	9.9	9.9	7.7
87.5°	4.4	8.8	7.7	7.7	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)