

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: P1061490

Luminaire Tested: S125RDR-S1090D935-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061490
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1090D935-X4F0-XX-UDD-BVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

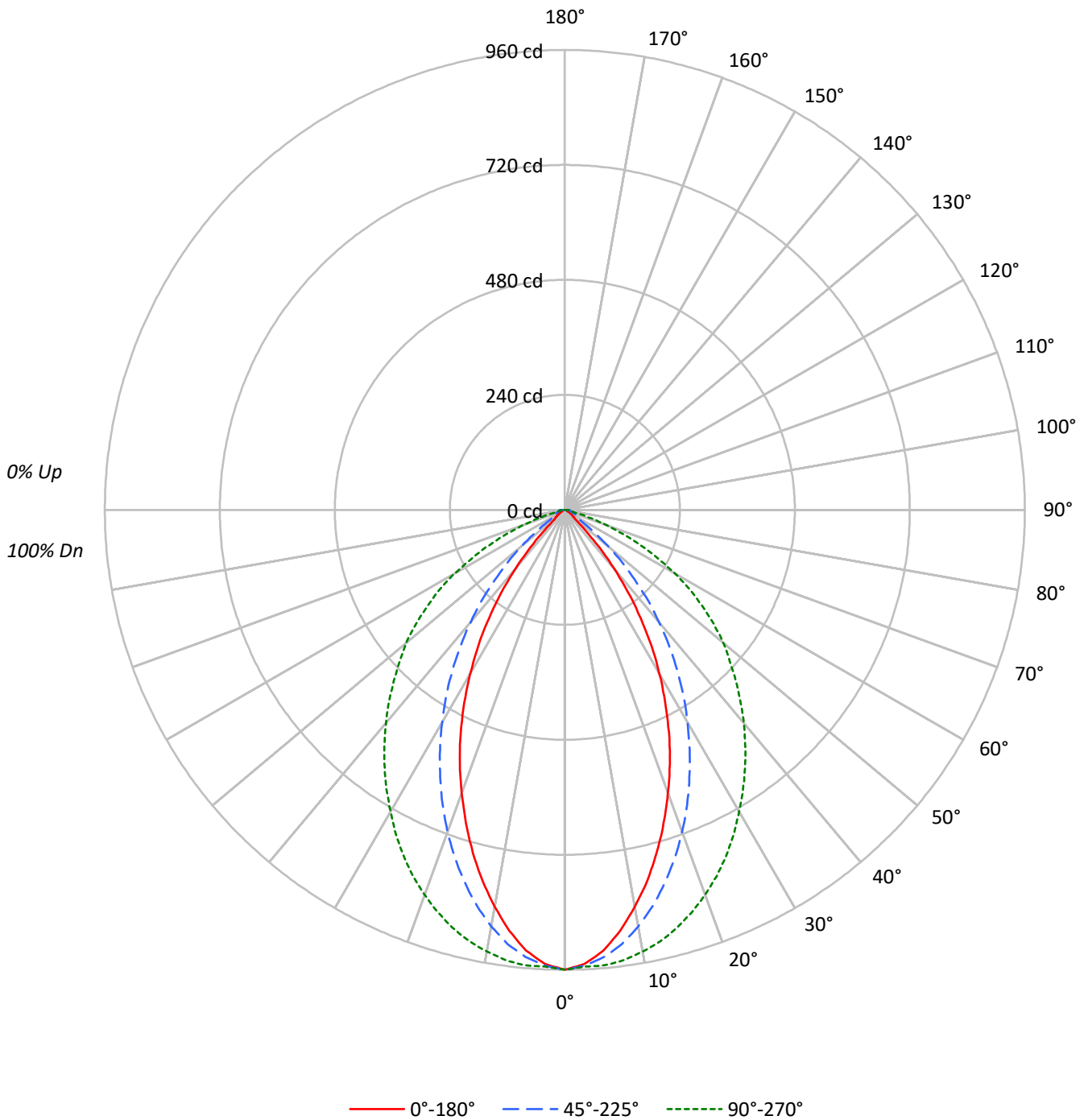
Lumens per Lamp: N/A
Luminaire Lumens: 1241.8 lumens
Efficiency: N/A
Efficacy: 35.5 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1061490

CATALOG NUMBER: S125RDR-S1090D935-X4F0-XX-UDD-BVL-W

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80				
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72				
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65				
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59				
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53				
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49				
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45				
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41				
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6608	6608	6608
5°	6383	6479	6597
10°	5883	6173	6546
15°	5283	5747	6439
20°	4610	5243	6267
25°	3905	4674	6052
30°	3137	4070	5782
35°	2322	3434	5513
40°	1438	2741	5224
45°	561	2004	4911
50°	262	1256	4626
55°	192	538	4199
60°	132	381	3642
65°	86	399	2832
70°	87	364	1782
75°	114	370	567
80°	170	424	381
85°	253	845	592

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4911 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	7.1
10°-20°	228.1	18.4
20°-30°	290.5	23.4
30°-40°	270.4	21.8
40°-50°	186.1	15.0
50°-60°	105.4	8.5
60°-70°	49.8	4.0
70°-80°	15.6	1.3
80°-90°	8.1	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°	606.5	48.8
0°-40°	876.9	70.6
0°-60°	1168.3	94.1
0°-90°	1241.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1241.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	960	960	960	960	960	
5°	924	936	937	946	954	86
15°	741	766	806	867	903	206
25°	514	547	615	719	797	234
35°	276	315	408	548	656	171
45°	58	92	206	372	504	54
55°	16	18	45	214	350	15
65°	5	6	24	77	174	6
75°	4	10	14	15	21	5
85°	3	8	11	10	8	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	959.8	959.8	959.8	959.8	959.8
2.5°	949.1	958.7	952.3	953.4	954.5
5°	923.6	936.3	937.4	945.9	954.5
7.5°	886.2	902.2	914.0	934.2	948.1
10°	841.4	860.6	883.0	916.1	936.3
12.5°	793.4	815.8	846.8	893.7	922.5
15°	741.2	765.7	806.2	867.0	903.3
17.5°	685.7	713.5	762.5	835.0	880.9
20°	629.2	659.1	715.6	798.8	855.3
22.5°	572.7	603.6	666.5	759.3	827.6
25°	514.0	547.1	615.3	718.8	796.6
27.5°	454.3	488.4	564.2	677.2	763.6
30°	394.6	430.8	511.9	634.5	727.3
32.5°	335.9	372.2	460.7	591.9	692.1
35°	276.2	314.6	408.5	548.2	655.9
37.5°	216.5	258.1	357.3	503.4	618.5
40°	160.0	199.4	305.0	459.6	581.2
42.5°	106.6	145.0	258.1	415.9	542.8
45°	57.6	91.7	205.8	372.2	504.4
47.5°	30.9	49.1	161.0	329.5	467.1
50°	24.5	27.7	117.3	290.1	431.9
52.5°	20.3	22.4	76.8	252.7	391.4
55°	16.0	18.1	44.8	214.4	349.8
57.5°	12.8	14.9	28.8	178.1	309.3
60°	9.6	11.7	27.7	142.9	264.5
62.5°	7.5	8.5	25.6	109.8	217.6
65°	5.3	6.4	24.5	76.8	173.8
67.5°	4.3	5.3	22.4	49.1	130.1
70°	4.3	4.3	18.1	32.0	88.5
72.5°	4.3	7.5	16.0	21.3	53.3
75°	4.3	9.6	13.9	14.9	21.3
77.5°	4.3	10.7	11.7	11.7	11.7
80°	4.3	9.6	10.7	10.7	9.6
82.5°	4.3	8.5	9.6	10.7	8.5
85°	3.2	8.5	10.7	9.6	7.5
87.5°	3.2	8.5	9.6	8.5	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)