

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: P1061489

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)
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-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

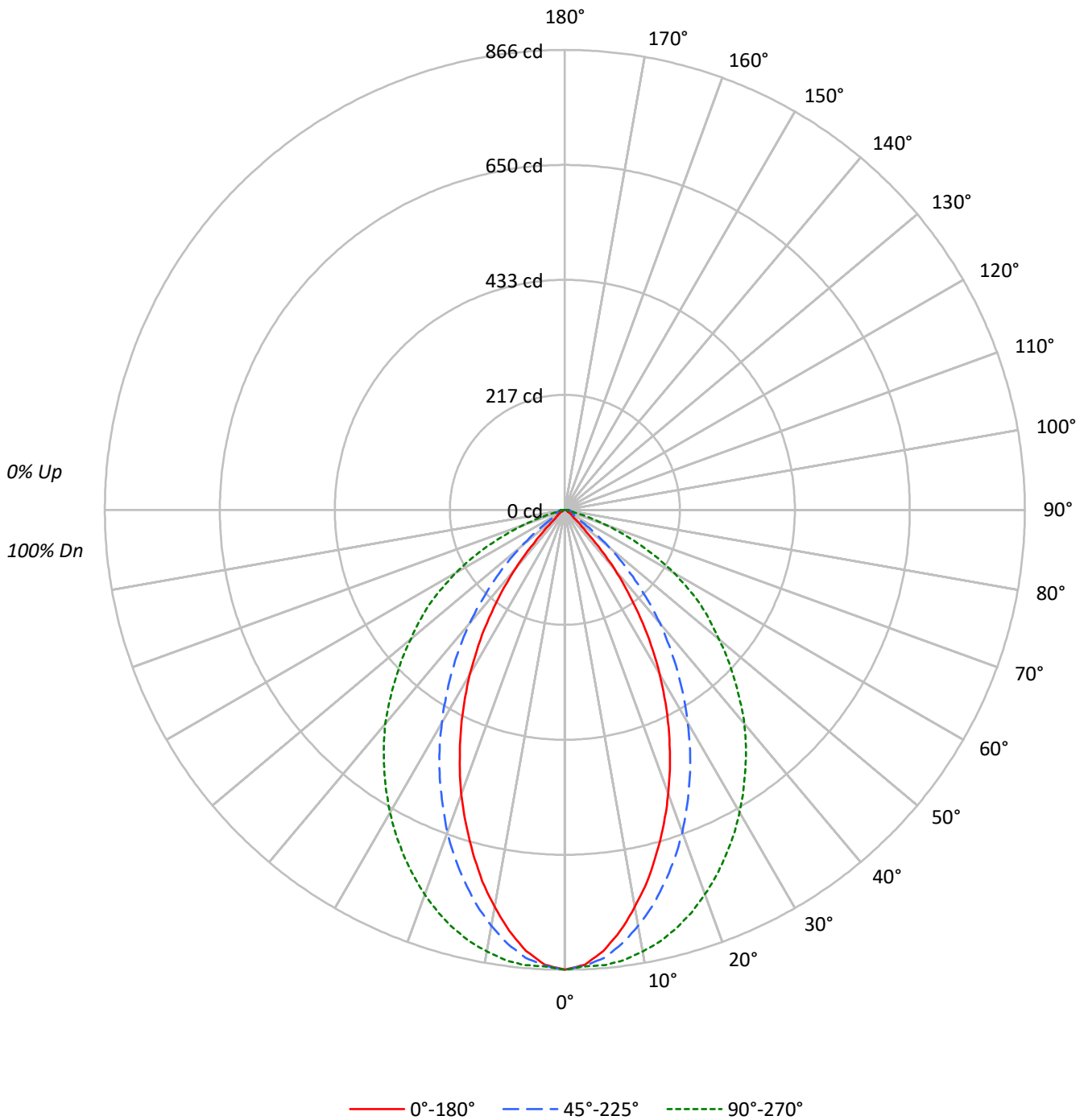
Lumens per Lamp: N/A
Luminaire Lumens: 1113.6 lumens
Efficiency: N/A
Efficacy: 31.8 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

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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				
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81				
3	98	90	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	68	74	70	67	65				
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59				
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54				
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49				
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45				
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42				
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5961	5961	5961
5°	5763	5851	5947
10°	5308	5562	5904
15°	4766	5176	5807
20°	4172	4735	5648
25°	3523	4229	5452
30°	2840	3679	5231
35°	2088	3101	4984
40°	1303	2501	4725
45°	488	1828	4391
50°	228	1142	4054
55°	167	474	3750
60°	117	249	3246
65°	70	295	2571
70°	64	344	1631
75°	85	341	511
80°	127	424	381
85°	253	671	506

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4391 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.4	7.1
10°-20°	205.5	18.5
20°-30°	261.8	23.5
30°-40°	243.7	21.9
40°-50°	167.0	15.0
50°-60°	91.9	8.3
60°-70°	43.5	3.9
70°-80°	13.7	1.2
80°-90°	7.0	0.6
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°	546.8	49.1
0°-40°	790.5	71.0
0°-60°	1049.4	94.2
0°-90°	1113.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1113.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	866	866	866	866	866	
5°	834	844	847	853	860	77
15°	669	690	726	780	815	186
25°	464	493	557	646	718	212
35°	248	284	369	490	593	154
45°	50	84	188	333	451	48
55°	14	16	40	186	312	13
65°	4	5	18	68	158	5
75°	3	5	13	14	19	3
85°	3	8	8	8	6	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	865.8	865.8	865.8	865.8	865.8
2.5°	857.3	865.8	859.4	859.4	860.5
5°	833.8	844.5	846.6	853.0	860.5
7.5°	799.7	813.6	824.2	842.4	855.2
10°	759.2	776.3	795.5	825.3	844.5
12.5°	716.6	734.7	763.5	805.1	831.7
15°	668.6	689.9	726.1	780.5	814.6
17.5°	619.5	643.0	687.8	751.7	794.4
20°	569.4	593.9	646.2	717.6	770.9
22.5°	517.2	543.8	601.4	682.4	745.3
25°	463.8	492.6	556.6	646.2	717.6
27.5°	410.5	440.4	510.8	608.9	688.8
30°	357.2	388.1	462.8	570.5	657.9
32.5°	302.8	336.9	415.9	532.1	625.9
35°	248.4	283.6	368.9	490.5	592.9
37.5°	195.1	231.4	323.1	451.0	559.8
40°	145.0	181.3	278.3	411.6	525.7
42.5°	93.8	132.2	231.4	371.1	488.4
45°	50.1	84.2	187.7	332.7	451.0
47.5°	26.7	44.8	146.1	294.3	415.9
50°	21.3	24.5	106.6	255.9	378.5
52.5°	17.1	19.2	68.2	216.5	345.5
55°	13.9	16.0	39.5	185.5	312.4
57.5°	10.7	12.8	22.4	154.6	274.0
60°	8.5	9.6	18.1	123.7	235.7
62.5°	5.3	7.5	18.1	96.0	197.3
65°	4.3	5.3	18.1	68.2	157.8
67.5°	4.3	4.3	18.1	44.8	118.4
70°	3.2	3.2	17.1	28.8	81.0
72.5°	3.2	3.2	14.9	19.2	46.9
75°	3.2	5.3	12.8	13.9	19.2
77.5°	3.2	8.5	11.7	11.7	10.7
80°	3.2	8.5	10.7	9.6	9.6
82.5°	3.2	8.5	8.5	8.5	7.5
85°	3.2	7.5	8.5	7.5	6.4
87.5°	3.2	7.5	7.5	7.5	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)