

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: P1061502

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061502
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)
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-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

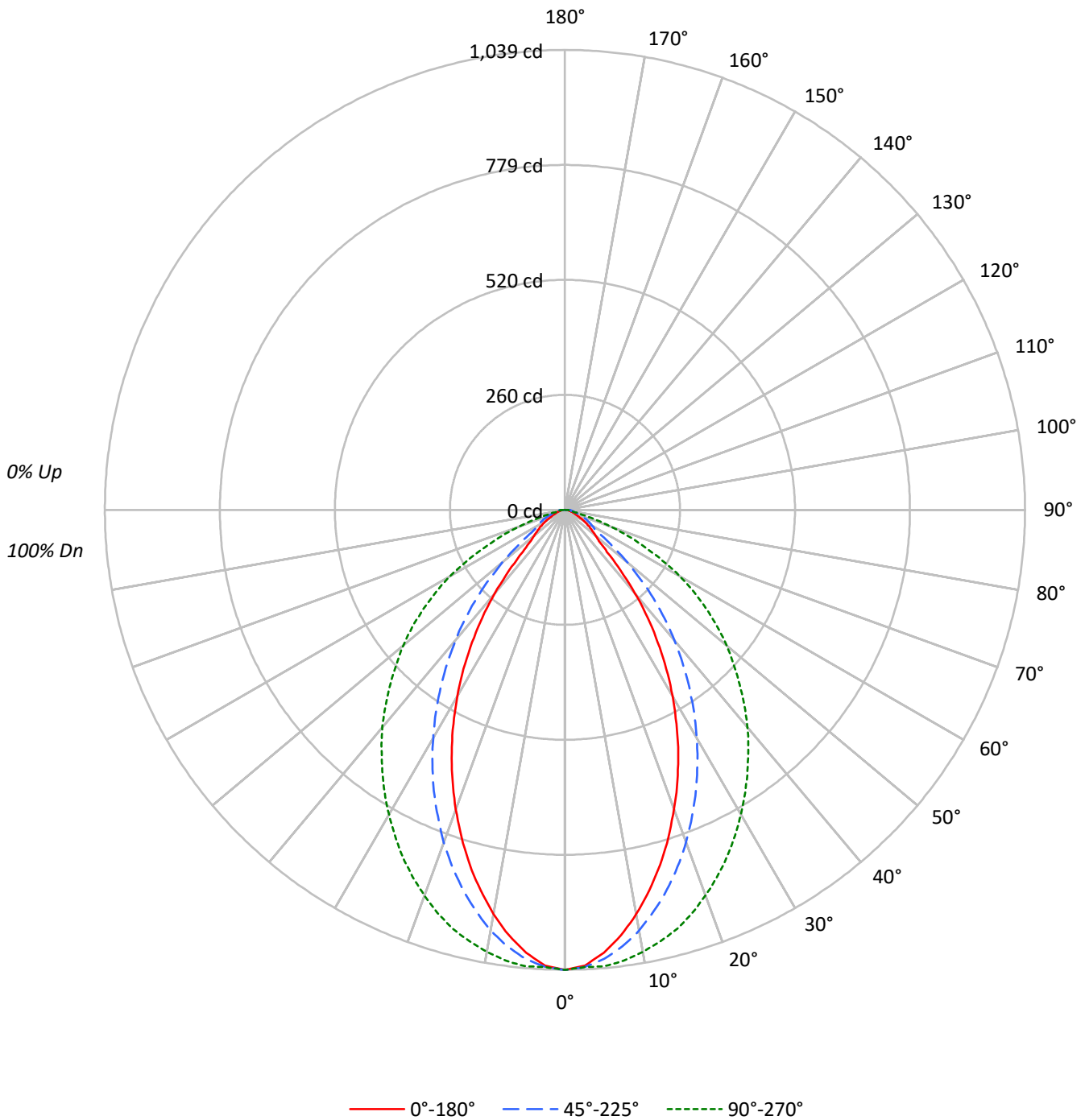
Lumens per Lamp: N/A
Luminaire Lumens: 1505.2 lumens
Efficiency: N/A
Efficacy: 43.0 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	105	103	100	101	99	97	98	96	94	94	92	91	89				89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79				79
3	96	88	81	76	94	86	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	62				62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56				56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	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	40	39				39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7155	7155	7155
5°	6945	7037	7152
10°	6485	6748	7088
15°	5920	6337	6982
20°	5276	5858	6797
25°	4598	5319	6578
30°	3863	4732	6321
35°	3072	4112	6043
40°	2214	3454	5767
45°	1312	2742	5430
50°	970	1952	5110
55°	822	1206	4679
60°	669	974	4122
65°	521	899	3257
70°	445	779	2178
75°	412	676	881
80°	436	702	615
85°	521	1051	695

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5430 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	6.4
10°-20°	251.5	16.7
20°-30°	328.8	21.8
30°-40°	320.3	21.3
40°-50°	240.2	16.0
50°-60°	150.6	10.0
60°-70°	78.4	5.2
70°-80°	28.4	1.9
80°-90°	11.2	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°	676.1	44.9
0°-40°	996.4	66.2
0°-60°	1387.2	92.2
0°-90°	1505.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1505.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1039	1039	1039	1039	1039	
5°	1005	1018	1018	1026	1035	93
15°	830	855	889	944	980	232
25°	605	638	700	795	866	277
35°	366	404	489	620	719	227
45°	135	174	282	435	558	113
55°	68	72	100	263	390	61
65°	32	34	55	106	200	33
75°	16	21	25	26	33	17
85°	7	11	13	12	9	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1039.2	1039.2	1039.2	1039.2	1039.2
2.5°	1030.3	1040.3	1033.7	1033.7	1033.7
5°	1004.9	1018.2	1018.2	1025.9	1034.8
7.5°	969.6	985.1	995.0	1013.8	1027.0
10°	927.6	946.4	965.2	996.1	1013.8
12.5°	880.2	902.2	928.7	971.8	998.3
15°	830.5	854.8	889.0	944.2	979.5
17.5°	776.3	805.1	845.9	912.2	955.2
20°	720.0	748.7	799.5	874.6	927.6
22.5°	663.7	694.6	749.8	834.9	897.8
25°	605.2	638.3	700.1	795.1	865.8
27.5°	545.5	579.8	648.2	754.3	830.5
30°	485.9	521.2	595.2	710.1	795.1
32.5°	426.3	463.8	542.2	664.8	757.6
35°	365.5	404.2	489.2	619.5	718.9
37.5°	307.0	345.7	436.2	573.1	680.3
40°	246.3	288.2	384.3	526.8	641.6
42.5°	186.6	229.7	332.4	480.4	599.7
45°	134.7	174.5	281.6	435.1	557.7
47.5°	103.8	125.9	229.7	388.7	516.8
50°	90.6	97.2	182.2	345.7	477.1
52.5°	78.4	82.8	136.9	305.9	434.0
55°	68.5	71.8	100.5	262.8	389.8
57.5°	57.4	61.8	79.5	220.9	344.6
60°	48.6	50.8	70.7	182.2	299.3
62.5°	39.8	42.0	62.9	143.6	248.5
65°	32.0	34.2	55.2	106.0	199.9
67.5°	26.5	27.6	46.4	75.1	153.5
70°	22.1	23.2	38.7	51.9	108.2
72.5°	18.8	22.1	30.9	37.5	68.5
75°	15.5	21.0	25.4	26.5	33.1
77.5°	13.3	19.9	21.0	21.0	18.8
80°	11.0	16.6	17.7	16.6	15.5
82.5°	8.8	13.3	14.4	14.4	12.1
85°	6.6	11.0	13.3	12.1	8.8
87.5°	4.4	9.9	11.0	9.9	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)