

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: P1061582

Luminaire Tested: S125RDR-S1270D940-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061582
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-S1270D940-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

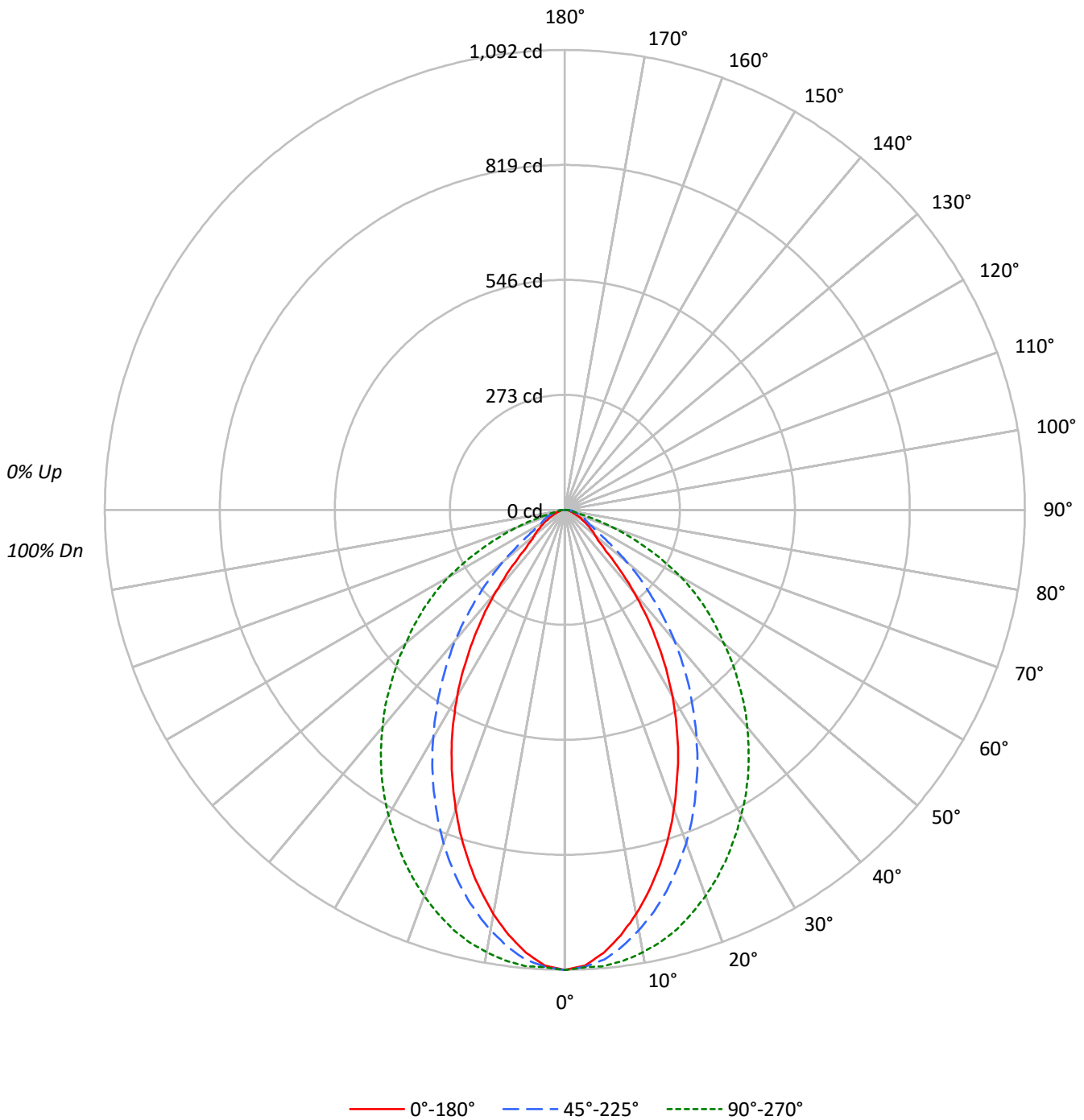
Lumens per Lamp: N/A
Luminaire Lumens: 1577.4 lumens
Efficiency: N/A
Efficacy: 37.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7521	7521	7521
5°	7299	7407	7514
10°	6813	7084	7456
15°	6216	6669	7343
20°	5545	6172	7150
25°	4834	5591	6921
30°	4059	4966	6655
35°	3202	4324	6383
40°	2295	3634	6056
45°	1351	2852	5678
50°	999	2054	5274
55°	840	1245	4900
60°	678	910	4372
65°	528	865	3504
70°	443	809	2373
75°	415	724	1035
80°	412	718	666
85°	513	924	719

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5678 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.6	6.4
10°-20°	264.4	16.8
20°-30°	345.6	21.9
30°-40°	336.4	21.3
40°-50°	251.4	15.9
50°-60°	155.9	9.9
60°-70°	81.9	5.2
70°-80°	29.8	1.9
80°-90°	11.3	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°	710.6	45.1
0°-40°	1047.0	66.4
0°-60°	1454.3	92.2
0°-90°	1577.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1577.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1092	1092	1092	1092	1092	
5°	1056	1070	1072	1078	1087	98
15°	872	898	936	993	1030	243
25°	636	669	736	836	911	291
35°	381	422	514	652	759	237
45°	139	181	293	457	583	117
55°	70	74	104	270	408	63
65°	32	35	53	114	215	34
75°	16	18	27	30	39	17
85°	6	12	12	12	9	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1092.4	1092.4	1092.4	1092.4	1092.4
2.5°	1083.3	1092.4	1085.9	1085.9	1087.2
5°	1056.1	1070.4	1071.7	1078.1	1087.2
7.5°	1018.5	1035.4	1045.7	1065.2	1079.4
10°	974.5	993.9	1013.3	1045.7	1066.5
12.5°	925.2	948.6	977.1	1021.1	1050.9
15°	872.1	898.0	935.6	992.6	1030.2
17.5°	816.4	843.6	890.2	958.9	1004.3
20°	756.8	786.6	842.3	920.0	975.8
22.5°	695.9	729.6	790.5	878.6	944.7
25°	636.3	668.7	736.0	835.8	911.0
27.5°	574.1	607.7	681.6	791.8	874.7
30°	510.6	546.8	624.6	746.4	837.1
32.5°	447.1	484.6	568.9	699.8	799.5
35°	381.0	422.4	514.4	651.8	759.4
37.5°	318.8	362.8	458.7	602.6	716.6
40°	255.3	300.6	404.3	554.6	673.8
42.5°	193.1	239.7	348.6	505.4	631.1
45°	138.7	181.4	292.9	457.4	583.1
47.5°	106.3	130.9	241.0	408.2	540.4
50°	93.3	101.1	191.8	360.2	492.4
52.5°	81.6	86.8	142.5	313.6	451.0
55°	70.0	73.9	103.7	269.5	408.2
57.5°	59.6	63.5	79.0	229.4	364.1
60°	49.2	53.1	66.1	189.2	317.5
62.5°	41.5	42.8	59.6	151.6	265.6
65°	32.4	35.0	53.1	114.0	215.1
67.5°	27.2	28.5	46.7	81.6	165.9
70°	22.0	23.3	40.2	57.0	117.9
72.5°	19.4	19.4	33.7	41.5	75.2
75°	15.6	18.1	27.2	29.8	38.9
77.5°	13.0	18.1	23.3	22.0	20.7
80°	10.4	16.8	18.1	18.1	16.8
82.5°	9.1	14.3	15.6	14.3	13.0
85°	6.5	11.7	11.7	11.7	9.1
87.5°	5.2	10.4	9.1	9.1	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)