

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: P1061570

Luminaire Tested: S125RDR-S1270D935-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061570
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-S1270D935-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: -

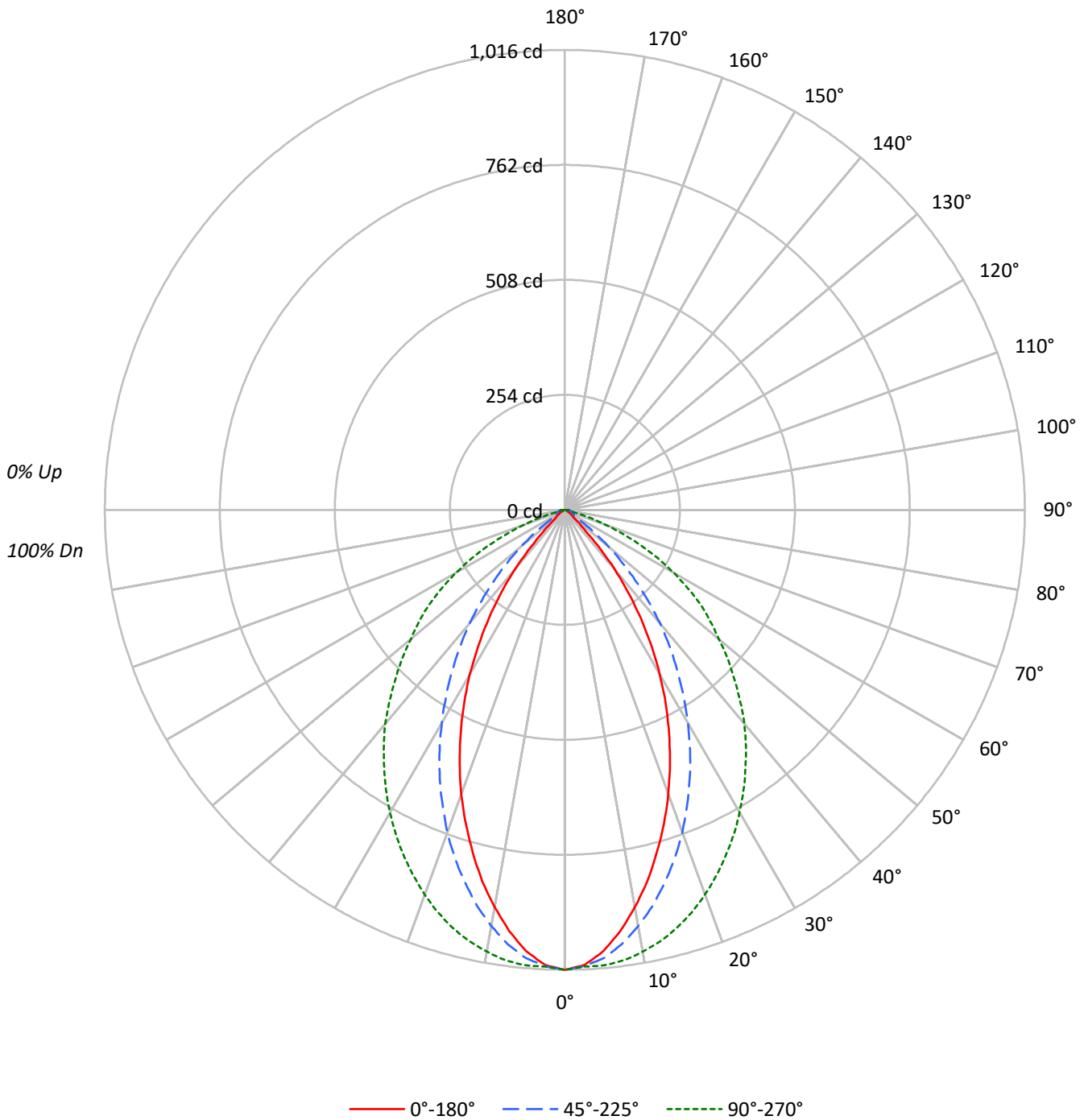
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1307.0 lumens
Efficiency: N/A
Efficacy: 31.3 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): 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	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°	6996	6996	6996
5°	6764	6867	6980
10°	6229	6527	6929
15°	5593	6075	6815
20°	4897	5557	6630
25°	4136	4962	6398
30°	3333	4318	6138
35°	2451	3640	5848
40°	1530	2935	5545
45°	573	2144	5154
50°	268	1340	4758
55°	196	556	4402
60°	138	293	3809
65°	81	347	3017
70°	76	403	1914
75°	101	399	599
80°	151	496	448
85°	300	790	592

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5154 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	7.1
10°-20°	241.2	18.5
20°-30°	307.3	23.5
30°-40°	286.0	21.9
40°-50°	196.0	15.0
50°-60°	107.9	8.3
60°-70°	51.1	3.9
70°-80°	16.1	1.2
80°-90°	8.2	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°	641.7	49.1
0°-40°	927.7	71.0
0°-60°	1231.6	94.2
0°-90°	1307.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1307.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1016	1016	1016	1016	1016	
5°	979	991	994	1001	1010	91
15°	785	810	852	916	956	219
25°	544	578	653	758	842	249
35°	292	333	433	576	696	181
45°	59	99	220	390	529	56
55°	16	19	46	218	367	15
65°	5	6	21	80	185	6
75°	4	6	15	16	22	4
85°	4	9	10	9	8	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1016.1	1016.1	1016.1	1016.1	1016.1
2.5°	1006.1	1016.1	1008.6	1008.6	1009.9
5°	978.6	991.1	993.6	1001.1	1009.9
7.5°	938.6	954.8	967.3	988.6	1003.6
10°	891.0	911.0	933.5	968.6	991.1
12.5°	840.9	862.2	896.0	944.8	976.1
15°	784.6	809.7	852.2	916.0	956.1
17.5°	727.1	754.6	807.2	882.2	932.3
20°	668.3	697.0	758.4	842.2	904.8
22.5°	606.9	638.2	705.8	800.9	874.7
25°	544.4	578.1	653.2	758.4	842.2
27.5°	481.8	516.8	599.4	714.6	808.4
30°	419.2	455.5	543.1	669.5	772.1
32.5°	355.4	395.4	488.0	624.5	734.6
35°	291.6	332.9	433.0	575.6	695.8
37.5°	229.0	271.6	379.2	529.3	657.0
40°	170.2	212.7	326.6	483.0	616.9
42.5°	110.1	155.2	271.6	435.5	573.1
45°	58.8	98.9	220.2	390.4	529.3
47.5°	31.3	52.6	171.4	345.4	488.0
50°	25.0	28.8	125.1	300.3	444.2
52.5°	20.0	22.5	80.1	254.0	405.5
55°	16.3	18.8	46.3	217.7	366.7
57.5°	12.5	15.0	26.3	181.5	321.6
60°	10.0	11.3	21.3	145.2	276.6
62.5°	6.3	8.8	21.3	112.6	231.5
65°	5.0	6.3	21.3	80.1	185.2
67.5°	5.0	5.0	21.3	52.6	138.9
70°	3.8	3.8	20.0	33.8	95.1
72.5°	3.8	3.8	17.5	22.5	55.1
75°	3.8	6.3	15.0	16.3	22.5
77.5°	3.8	10.0	13.8	13.8	12.5
80°	3.8	10.0	12.5	11.3	11.3
82.5°	3.8	10.0	10.0	10.0	8.8
85°	3.8	8.8	10.0	8.8	7.5
87.5°	3.8	8.8	8.8	8.8	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)