

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: P1061563

Luminaire Tested: S125RDR-S1270D930-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061563
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1270D930-X4F0-XX-UDD-SVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

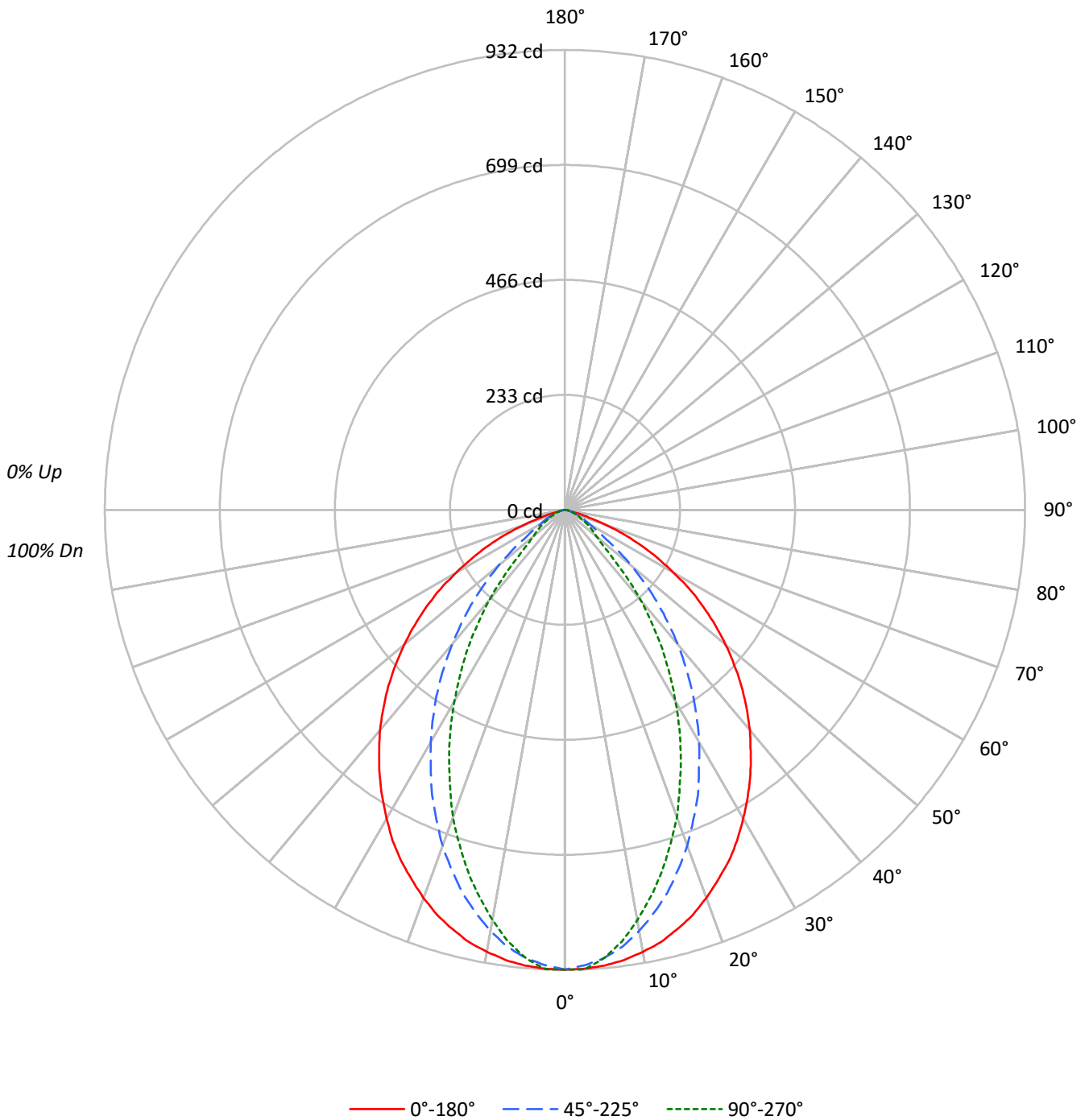
Lumens per Lamp: N/A
Luminaire Lumens: 1347.6 lumens
Efficiency: N/A
Efficacy: 32.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6416	6416	6416
5°	6408	6301	6301
10°	6357	6059	5902
15°	6271	5722	5410
20°	6134	5309	4858
25°	5964	4839	4219
30°	5742	4320	3558
35°	5503	3782	2886
40°	5236	3193	2139
45°	4923	2559	1291
50°	4552	1877	888
55°	4108	1151	739
60°	3489	782	587
65°	2758	598	463
70°	1739	429	380
75°	567	314	314
80°	186	234	282
85°	95	190	190

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4923 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	6.4
10°-20°	227.6	16.9
20°-30°	299.4	22.2
30°-40°	294.2	21.8
40°-50°	222.5	16.5
50°-60°	134.9	10.0
60°-70°	63.7	4.7
70°-80°	16.6	1.2
80°-90°	2.5	0.2
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°	613.1	45.5
0°-40°	907.3	67.3
0°-60°	1264.7	93.9
0°-90°	1347.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1347.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	932	932	932	932	932	
5°	927	925	912	913	912	88
15°	880	856	803	772	759	248
25°	785	726	637	578	555	361
35°	655	567	450	371	343	409
45°	506	398	263	167	133	389
55°	342	234	96	65	62	305
65°	169	86	37	31	28	167
75°	21	14	12	12	12	33
85°	1	1	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	931.8	931.8	931.8	931.8	931.8
2.5°	930.6	930.6	923.5	931.8	931.8
5°	927.1	924.7	911.7	912.9	911.7
7.5°	920.0	915.2	892.7	886.8	882.1
10°	909.3	899.8	866.7	852.5	844.2
12.5°	897.5	880.9	835.9	815.8	802.7
15°	879.7	856.0	802.7	772.0	758.9
17.5°	860.8	826.4	763.7	727.0	710.4
20°	837.1	796.8	724.6	679.6	663.0
22.5°	811.0	763.7	679.6	629.9	607.4
25°	785.0	725.8	637.0	577.8	555.3
27.5°	755.4	687.9	588.4	526.9	502.0
30°	722.2	650.0	543.4	479.5	447.5
32.5°	689.1	610.9	496.1	426.2	394.3
35°	654.7	567.1	449.9	370.6	343.4
37.5°	618.0	525.7	402.6	319.7	287.7
40°	582.5	484.2	355.2	267.6	238.0
42.5°	544.6	442.8	307.8	216.7	183.5
45°	505.6	397.8	262.8	166.9	132.6
47.5°	465.3	357.6	217.9	123.1	99.5
50°	425.0	314.9	175.2	91.2	82.9
52.5°	383.6	273.5	132.6	75.8	72.2
55°	342.2	234.4	95.9	65.1	61.6
57.5°	299.5	191.8	72.2	55.6	52.1
60°	253.4	153.9	56.8	46.2	42.6
62.5°	210.7	120.8	46.2	37.9	35.5
65°	169.3	86.4	36.7	30.8	28.4
67.5°	126.7	58.0	28.4	23.7	23.7
70°	86.4	37.9	21.3	18.9	18.9
72.5°	52.1	22.5	15.4	15.4	15.4
75°	21.3	14.2	11.8	11.8	11.8
77.5°	7.1	8.3	8.3	9.5	9.5
80°	4.7	4.7	5.9	7.1	7.1
82.5°	2.4	3.6	3.6	4.7	4.7
85°	1.2	1.2	2.4	2.4	2.4
87.5°	0.0	0.0	0.0	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)