

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: P1061479

Luminaire Tested: S125RDR-S1090D930-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-48)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1090D930-X4F0-XX-UDD-BVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

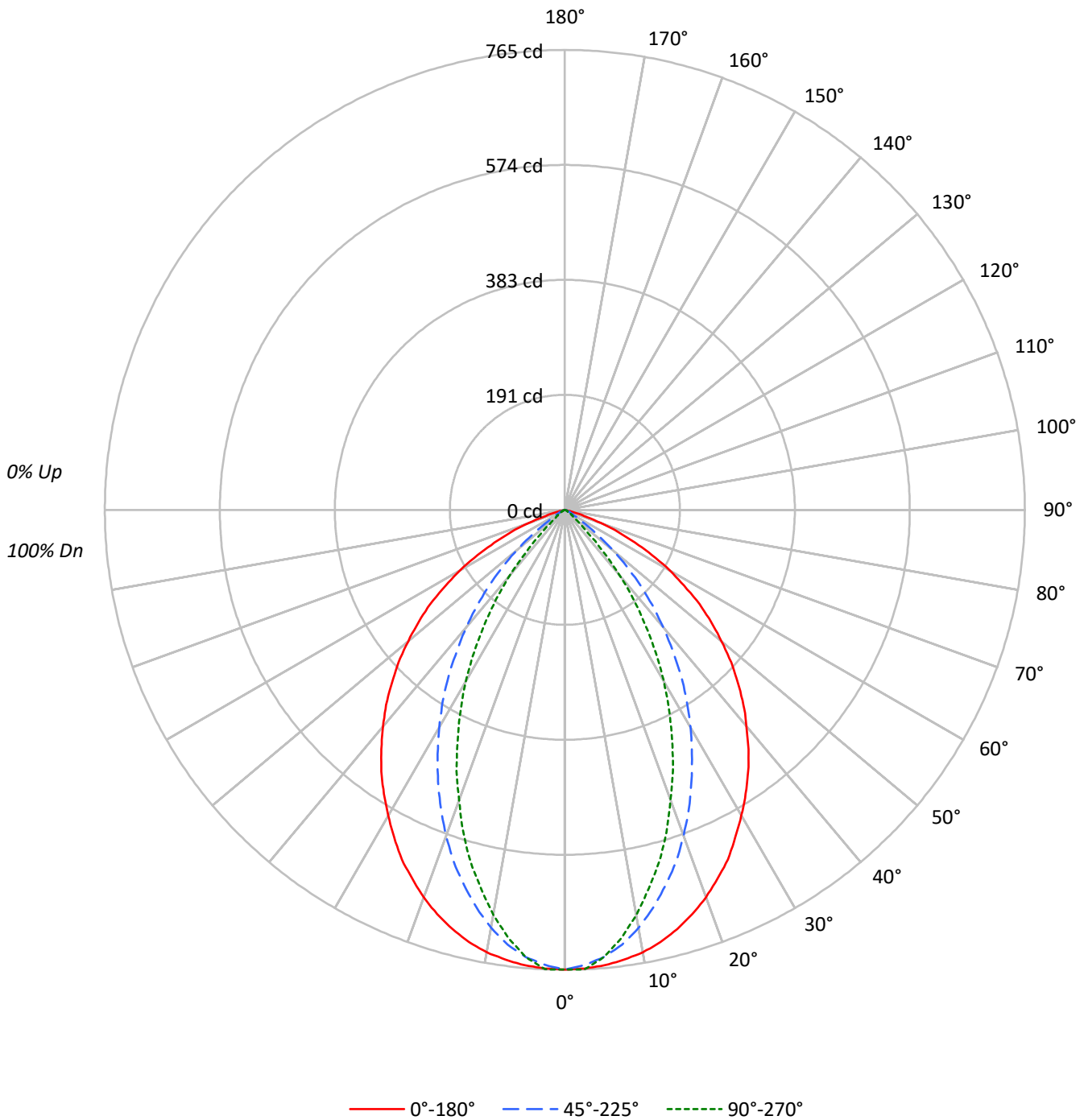
Lumens per Lamp: N/A
Luminaire Lumens: 987.8 lumens
Efficiency: N/A
Efficacy: 28.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
Input Voltage (V): 120
Input Current (A_{in}): 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	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5265	5265	5265
5°	5257	5159	5159
10°	5226	4937	4782
15°	5149	4609	4322
20°	5026	4228	3762
25°	4874	3786	3204
30°	4668	3320	2615
35°	4468	2832	1958
40°	4225	2285	1269
45°	3958	1728	550
50°	3642	1102	206
55°	3282	485	145
60°	2779	208	98
65°	2103	132	49
70°	1280	60	20
75°	269	27	27
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3958 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	7.1
10°-20°	183.7	18.6
20°-30°	235.9	23.9
30°-40°	222.1	22.5
40°-50°	155.3	15.7
50°-60°	82.9	8.4
60°-70°	33.1	3.3
70°-80°	4.3	0.4
80°-90°	0.0	0.0
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°	490.2	49.6
0°-40°	712.3	72.1
0°-60°	950.5	96.2
0°-90°	987.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	987.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	765	765	765	765	765	
5°	761	759	746	748	746	72
15°	722	699	647	616	606	203
25°	642	585	498	444	422	294
35°	532	447	337	260	233	332
45°	406	305	178	86	56	314
55°	273	168	40	14	12	242
65°	129	51	8	4	3	128
75°	10	3	1	1	1	20
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	764.7	764.7	764.7	764.7	764.7
2.5°	763.6	764.7	757.6	763.6	764.7
5°	760.6	758.6	746.5	748.5	746.5
7.5°	754.6	749.5	729.3	722.3	718.3
10°	747.5	736.4	706.1	691.0	684.0
12.5°	736.4	720.3	677.9	654.7	644.6
15°	722.3	699.1	646.6	616.4	606.3
17.5°	705.1	674.9	614.3	577.0	561.9
20°	686.0	645.6	577.0	532.6	513.5
22.5°	663.8	617.4	538.7	489.3	470.1
25°	641.6	585.1	498.3	443.9	421.7
27.5°	614.3	551.8	458.0	399.5	375.3
30°	587.1	518.5	417.6	354.1	328.9
32.5°	559.9	483.2	377.3	306.7	281.4
35°	531.6	446.9	336.9	260.3	233.0
37.5°	501.4	410.6	293.6	215.9	187.6
40°	470.1	375.3	254.2	172.5	141.2
42.5°	439.8	340.0	214.9	130.1	95.8
45°	406.5	304.7	177.5	85.7	56.5
47.5°	375.3	270.4	139.2	49.4	29.3
50°	340.0	235.0	102.9	26.2	19.2
52.5°	306.7	200.7	68.6	17.1	15.1
55°	273.4	167.5	40.4	14.1	12.1
57.5°	235.0	135.2	22.2	11.1	9.1
60°	201.8	105.9	15.1	8.1	7.1
62.5°	163.4	77.7	11.1	6.1	5.0
65°	129.1	51.4	8.1	4.0	3.0
67.5°	95.8	30.3	5.0	2.0	2.0
70°	63.6	16.1	3.0	1.0	1.0
72.5°	33.3	7.1	2.0	1.0	1.0
75°	10.1	3.0	1.0	1.0	1.0
77.5°	0.0	1.0	0.0	0.0	1.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)