

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 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: S125RDRP-S1090D930-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
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: S125RDRP-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

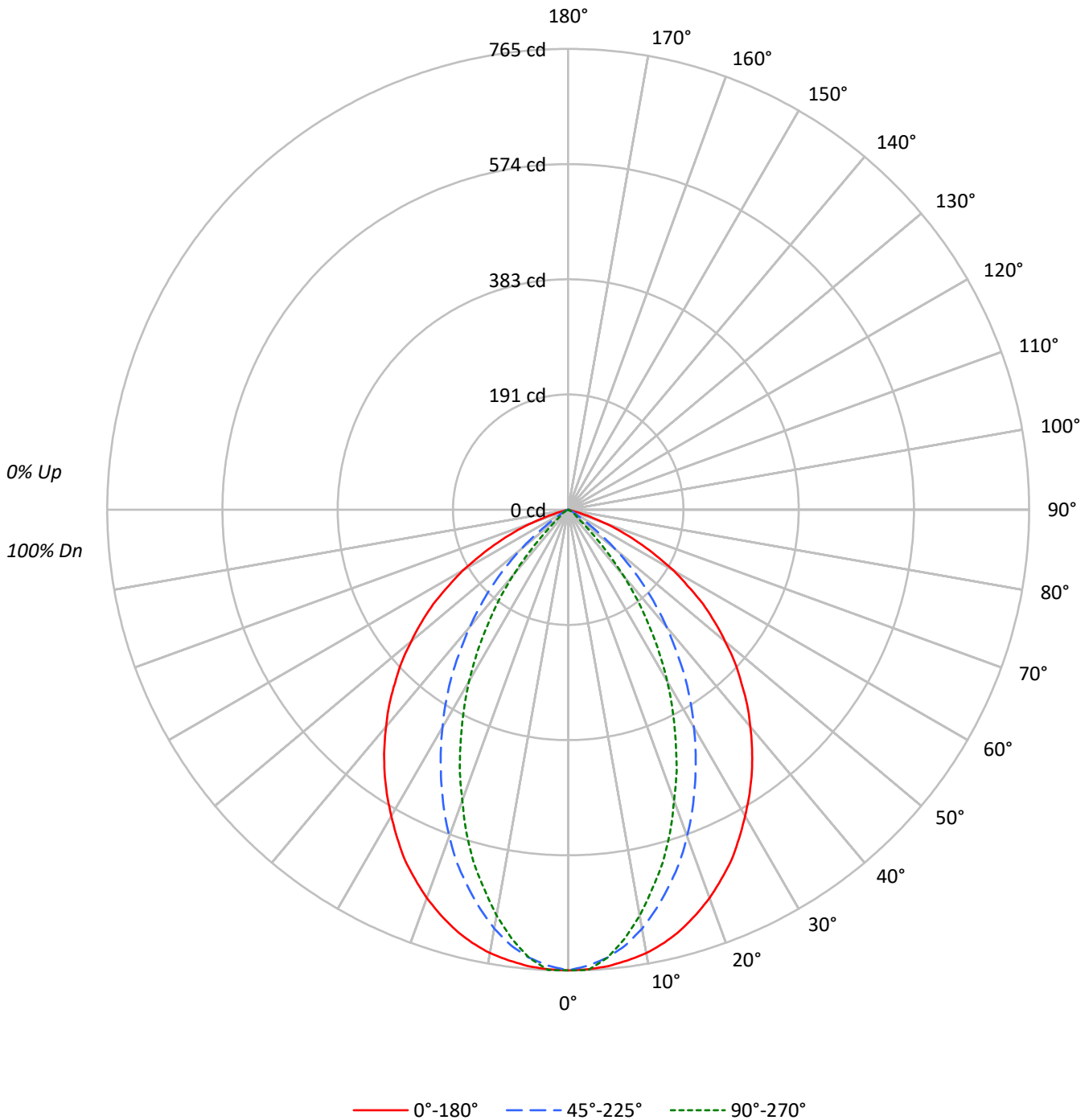
Lumens per Lamp: N/A
Luminaire Lumens: 987.8 lumens
Efficiency: N/A
Efficacy: 28.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1061479

CATALOG NUMBER: S125RDRP-S1090D930-X4F0-XX-UDD-BVL-B

Luminous Intensity Polar Plot





TEST NUMBER: P1061479

CATALOG NUMBER: S125RDRP-S1090D930-X4F0-XX-UDD-BVL-B

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	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



TEST NUMBER: P1061479

CATALOG NUMBER: S125RDRP-S1090D930-X4F0-XX-UDD-BVL-B

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	0



TEST NUMBER: P1061479

CATALOG NUMBER: S125RDRP-S1090D930-X4F0-XX-UDD-BVL-B

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



TEST NUMBER: P1061479
 CATALOG NUMBER: S125RDRP-S1090D930-X4F0-XX-UDD-BVL-B

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.72	15.98	15.08	16.29	16.61	0.00	0.00	0.00	0.00	0.00
	3H	15.30	16.41	15.68	16.74	17.11	0.00	0.00	0.00	0.00	0.00
	4H	15.26	16.30	15.67	16.65	17.03	0.00	0.00	0.00	0.00	0.00
	6H	15.18	16.12	15.59	16.49	16.89	0.00	0.00	0.00	0.00	0.00
	8H	15.13	16.02	15.56	16.42	16.82	0.00	0.00	0.00	0.00	0.00
	12H	15.09	15.94	15.52	16.32	16.75	0.00	0.00	0.00	0.00	0.00
4H	2H	14.49	15.52	14.89	15.87	16.26	0.00	0.00	0.00	0.00	0.00
	3H	15.08	15.92	15.49	16.32	16.72	0.00	0.00	0.00	0.00	0.00
	4H	15.03	15.77	15.47	16.19	16.64	0.00	0.00	0.00	0.00	0.00
	6H	14.94	15.58	15.41	16.03	16.50	0.00	0.00	0.00	0.00	0.00
	8H	14.88	15.48	15.35	15.92	16.40	0.00	0.00	0.00	0.00	0.00
	12H	14.83	15.35	15.32	15.84	16.31	0.00	0.00	0.00	0.00	0.00
8H	4H	14.88	15.48	15.35	15.92	16.40	0.00	0.00	0.00	0.00	0.00
	6H	14.78	15.26	15.28	15.76	16.24	0.00	0.00	0.00	0.00	0.00
	8H	14.71	15.14	15.23	15.66	16.15	0.00	0.00	0.00	0.00	0.00
	12H	14.66	15.04	15.18	15.54	16.11	0.00	0.00	0.00	0.00	0.00
12H	4H	14.83	15.35	15.32	15.84	16.31	0.00	0.00	0.00	0.00	0.00
	6H	14.71	15.14	15.23	15.66	16.15	0.00	0.00	0.00	0.00	0.00
	8H	14.66	15.04	15.18	15.54	16.11	0.00	0.00	0.00	0.00	0.00