

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: P1061506

Luminaire Tested: S125RDRP-S1090D950-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061506
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-S1090D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

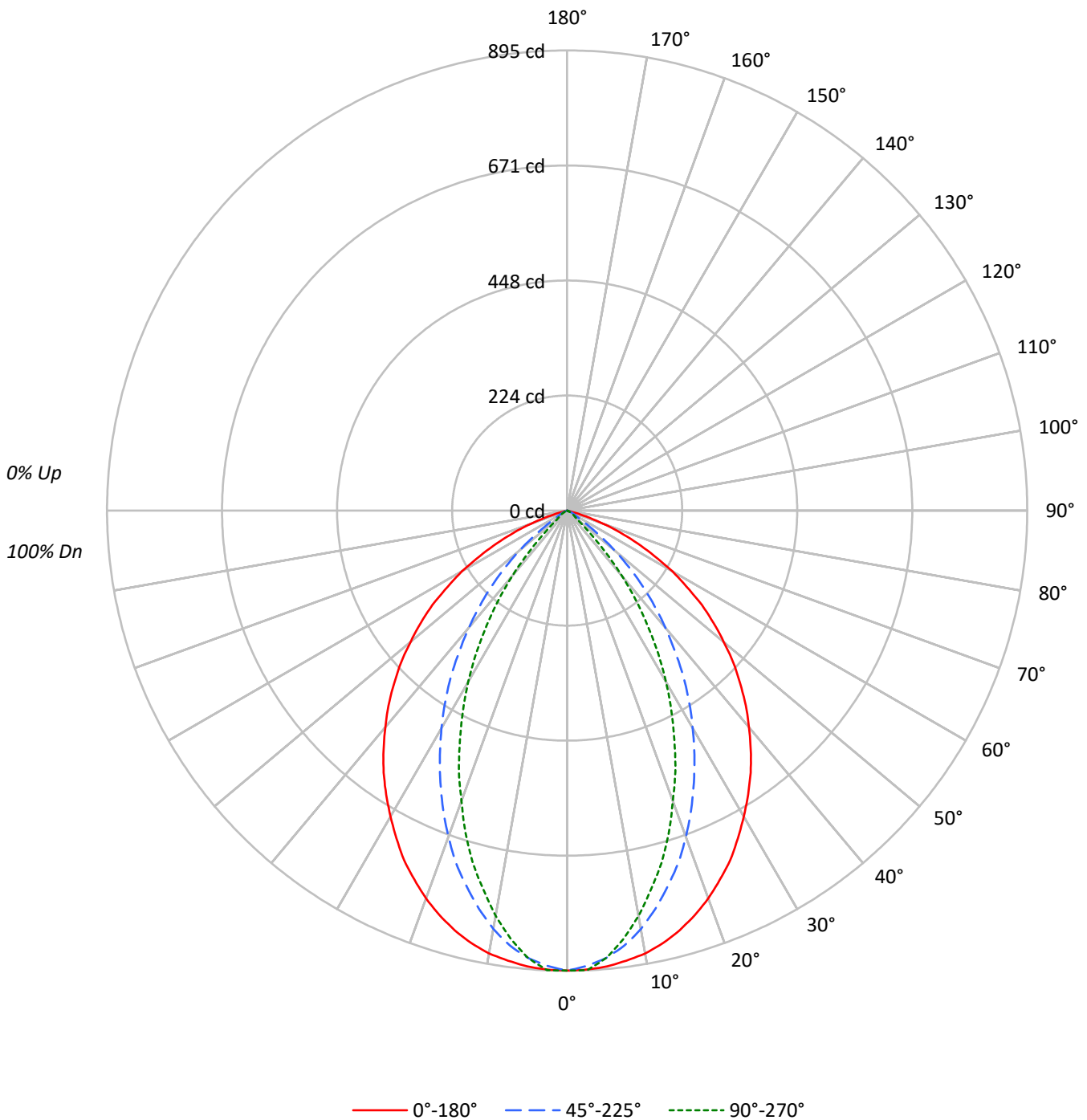
Lumens per Lamp: N/A
Luminaire Lumens: 1155.9 lumens
Efficiency: N/A
Efficacy: 33.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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: P1061506

CATALOG NUMBER: S125RDRP-S1090D950-X4F0-XX-UDD-BVL-B

Luminous Intensity Polar Plot





TEST NUMBER: P1061506

CATALOG NUMBER: S125RDRP-S1090D950-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	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°	6160	6160	6160
5°	6151	6037	6037
10°	6115	5777	5595
15°	6025	5393	5057
20°	5881	4947	4402
25°	5703	4430	3748
30°	5462	3885	3059
35°	5229	3314	2292
40°	4944	2674	1486
45°	4632	2022	644
50°	4261	1290	240
55°	3840	567	170
60°	3251	244	114
65°	2462	153	57
70°	1498	70	24
75°	314	32	32
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4632 cd/sqm



TEST NUMBER: P1061506

CATALOG NUMBER: S125RDRP-S1090D950-X4F0-XX-UDD-BVL-B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.5	7.1
10°-20°	215.0	18.6
20°-30°	276.1	23.9
30°-40°	259.9	22.5
40°-50°	181.7	15.7
50°-60°	97.1	8.4
60°-70°	38.7	3.3
70°-80°	5.0	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°	573.5	49.6
0°-40°	833.4	72.1
0°-60°	1112.2	96.2
0°-90°	1155.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1155.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	895	895	895	895	895	
5°	890	888	874	876	874	84
15°	845	818	757	721	709	238
25°	751	685	583	519	493	345
35°	622	523	394	304	273	388
45°	476	356	208	100	66	367
55°	320	196	47	16	14	284
65°	151	60	9	5	4	150
75°	12	4	1	1	1	23
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P1061506

CATALOG NUMBER: S125RDRP-S1090D950-X4F0-XX-UDD-BVL-B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	894.7	894.7	894.7	894.7	894.7
2.5°	893.6	894.7	886.5	893.6	894.7
5°	890.0	887.7	873.5	875.9	873.5
7.5°	882.9	877.0	853.4	845.2	840.4
10°	874.7	861.7	826.3	808.6	800.3
12.5°	861.7	842.8	793.2	766.1	754.3
15°	845.2	818.0	756.6	721.2	709.4
17.5°	825.1	789.7	718.9	675.2	657.5
20°	802.7	755.5	675.2	623.2	600.8
22.5°	776.7	722.4	630.3	572.5	550.1
25°	750.7	684.6	583.1	519.4	493.4
27.5°	718.9	645.7	535.9	467.4	439.1
30°	687.0	606.7	488.7	414.3	384.8
32.5°	655.1	565.4	441.5	358.8	329.3
35°	622.1	522.9	394.3	304.5	272.7
37.5°	586.7	480.4	343.5	252.6	219.6
40°	550.1	439.1	297.5	201.8	165.3
42.5°	514.7	397.8	251.4	152.3	112.1
45°	475.7	356.5	207.7	100.3	66.1
47.5°	439.1	316.3	162.9	57.8	34.2
50°	397.8	275.0	120.4	30.7	22.4
52.5°	358.8	234.9	80.3	20.1	17.7
55°	319.9	195.9	47.2	16.5	14.2
57.5°	275.0	158.2	26.0	13.0	10.6
60°	236.1	123.9	17.7	9.4	8.3
62.5°	191.2	90.9	13.0	7.1	5.9
65°	151.1	60.2	9.4	4.7	3.5
67.5°	112.1	35.4	5.9	2.4	2.4
70°	74.4	18.9	3.5	1.2	1.2
72.5°	39.0	8.3	2.4	1.2	1.2
75°	11.8	3.5	1.2	1.2	1.2
77.5°	0.0	1.2	0.0	0.0	1.2
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: P1061506
 CATALOG NUMBER: S125RDRP-S1090D950-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	15.26	16.52	15.63	16.84	17.15	0.00	0.00	0.00	0.00	0.00
	3H	15.85	16.96	16.23	17.29	17.65	0.00	0.00	0.00	0.00	0.00
	4H	15.81	16.84	16.21	17.19	17.58	0.00	0.00	0.00	0.00	0.00
	6H	15.72	16.67	16.14	17.04	17.43	0.00	0.00	0.00	0.00	0.00
	8H	15.68	16.57	16.11	16.96	17.37	0.00	0.00	0.00	0.00	0.00
	12H	15.63	16.48	16.06	16.87	17.30	0.00	0.00	0.00	0.00	0.00
4H	2H	15.03	16.07	15.44	16.42	16.80	0.00	0.00	0.00	0.00	0.00
	3H	15.63	16.46	16.04	16.87	17.27	0.00	0.00	0.00	0.00	0.00
	4H	15.58	16.32	16.01	16.74	17.18	0.00	0.00	0.00	0.00	0.00
	6H	15.49	16.13	15.95	16.57	17.04	0.00	0.00	0.00	0.00	0.00
	8H	15.43	16.02	15.90	16.47	16.94	0.00	0.00	0.00	0.00	0.00
	12H	15.38	15.90	15.87	16.38	16.86	0.00	0.00	0.00	0.00	0.00
8H	4H	15.43	16.02	15.90	16.47	16.94	0.00	0.00	0.00	0.00	0.00
	6H	15.32	15.80	15.83	16.30	16.78	0.00	0.00	0.00	0.00	0.00
	8H	15.26	15.69	15.78	16.20	16.70	0.00	0.00	0.00	0.00	0.00
	12H	15.21	15.59	15.72	16.08	16.66	0.00	0.00	0.00	0.00	0.00
12H	4H	15.38	15.90	15.87	16.38	16.86	0.00	0.00	0.00	0.00	0.00
	6H	15.26	15.69	15.78	16.20	16.70	0.00	0.00	0.00	0.00	0.00
	8H	15.21	15.59	15.72	16.08	16.66	0.00	0.00	0.00	0.00	0.00