

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: P1175371

Luminaire Tested: S125RDRP-S375D935-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175371
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)
Test Lab: INNOVATION CENTER
Issue Date: 8/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S375D935-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

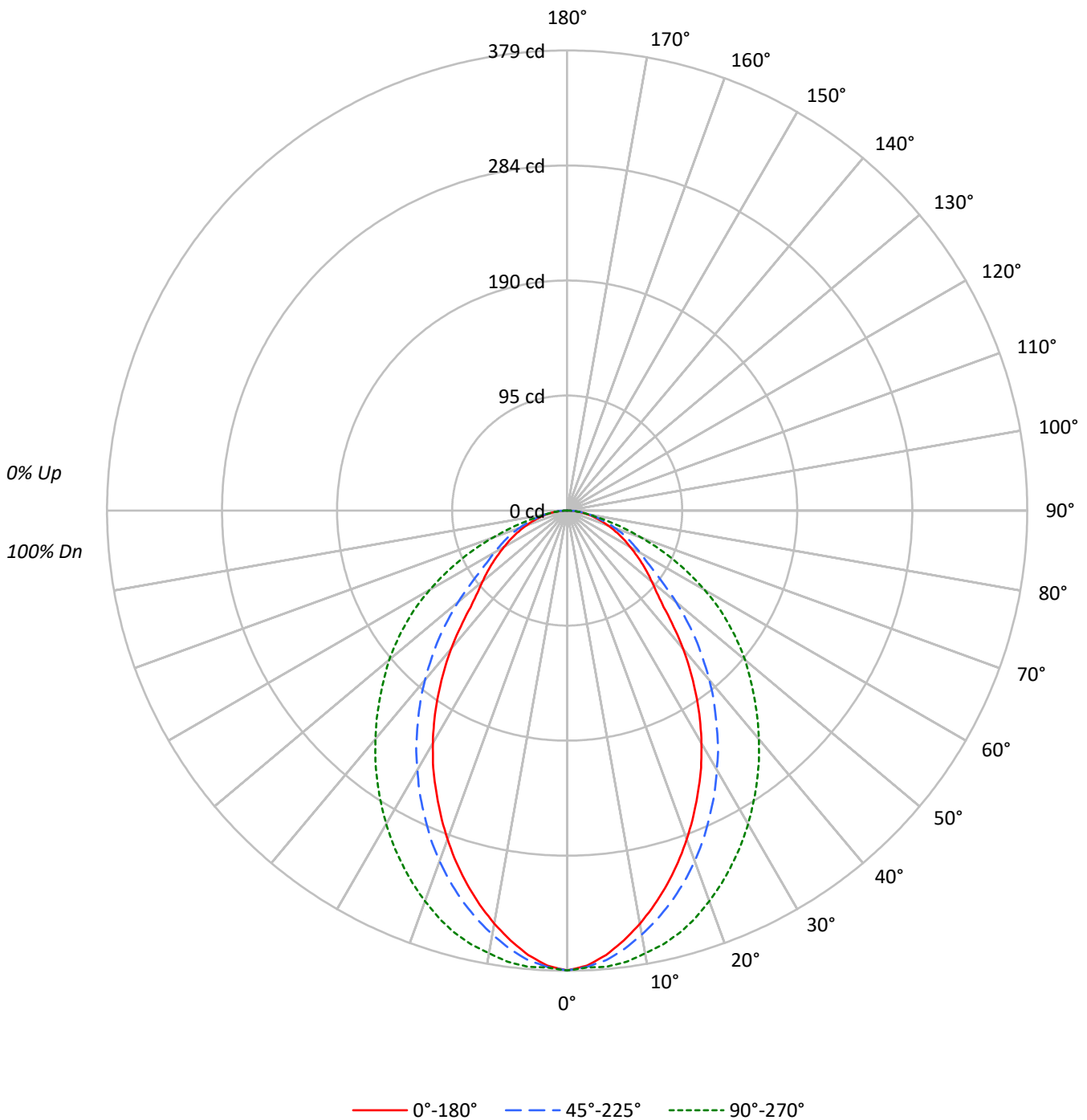
Lumens per Lamp: N/A
Luminaire Lumens: 713.4 lumens
Efficiency: N/A
Efficacy: 57.1 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
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: P1175371

CATALOG NUMBER: S125RDRP-S375D935-X4F0-XX-UDD-WVL-W

Luminous Intensity Polar Plot





TEST NUMBER: P1175371

CATALOG NUMBER: S125RDRP-S375D935-X4F0-XX-UDD-WVL-W

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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2607	2607	2607
5°	2539	2568	2606
10°	2416	2478	2589
15°	2270	2374	2564
20°	2110	2252	2508
25°	1939	2110	2442
30°	1759	1960	2369
35°	1556	1802	2291
40°	1335	1639	2207
45°	1095	1459	2122
50°	975	1253	2049
55°	899	1049	1945
60°	828	956	1801
65°	771	901	1592
70°	719	841	1300
75°	676	779	974
80°	638	714	702
85°	585	711	585

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2122 cd/sqm

TEST NUMBER: P1175371

CATALOG NUMBER: S125RDRP-S375D935-X4F0-XX-UDD-WVL-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.1	4.9
10°-20°	94.5	13.2
20°-30°	130.0	18.2
30°-40°	137.9	19.3
40°-50°	120.7	16.9
50°-60°	92.6	13.0
60°-70°	61.7	8.6
70°-80°	31.6	4.4
80°-90°	9.4	1.3
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°	259.5	36.4
0°-40°	397.4	55.7
0°-60°	610.7	85.6
0°-90°	713.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	713.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	379	379	379	379	379	
5°	367	372	372	374	377	34
15°	318	326	333	349	360	89
25°	255	264	278	301	321	117
35°	185	194	214	246	273	115
45°	112	122	150	187	218	89
55°	75	76	87	130	162	67
65°	47	48	55	73	98	47
75°	25	27	29	31	37	27
85°	7	8	9	9	7	8
90°	0	0	0	0	0	

TEST NUMBER: P1175371

CATALOG NUMBER: S125RDRP-S375D935-X4F0-XX-UDD-WVL-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	378.7	378.7	378.7	378.7	378.7
2.5°	375.1	379.0	376.1	376.4	376.7
5°	367.4	372.2	371.6	374.2	377.0
7.5°	357.1	362.3	363.9	370.3	374.8
10°	345.5	351.3	354.5	364.2	370.3
12.5°	332.4	339.1	344.3	356.8	365.8
15°	318.5	325.9	333.0	348.8	359.7
17.5°	303.8	311.2	320.5	338.5	351.7
20°	288.0	296.0	307.3	326.6	342.3
22.5°	271.9	280.3	293.2	314.4	332.4
25°	255.2	263.9	277.7	301.2	321.4
27.5°	238.8	246.9	262.9	288.0	310.2
30°	221.2	229.5	246.5	274.2	298.0
32.5°	203.5	211.8	231.4	260.4	285.4
35°	185.1	193.8	214.4	245.9	272.6
37.5°	166.8	175.8	198.6	231.1	259.4
40°	148.5	158.1	182.3	216.3	245.6
42.5°	129.9	140.1	165.5	201.9	232.1
45°	112.5	121.8	149.8	187.1	217.9
47.5°	100.0	105.4	133.1	172.0	204.4
50°	91.0	93.5	117.0	157.5	191.3
52.5°	82.9	84.5	101.3	144.0	176.8
55°	74.9	76.5	87.4	129.9	162.0
57.5°	67.2	68.1	77.1	115.7	147.2
60°	60.1	60.8	69.4	101.6	130.8
62.5°	53.7	54.0	62.0	87.1	114.4
65°	47.3	47.6	55.3	72.6	97.7
67.5°	41.5	41.5	48.9	59.5	81.6
70°	35.7	35.7	41.8	48.2	64.6
72.5°	30.5	31.2	35.4	38.9	50.5
75°	25.4	27.0	29.3	30.9	36.6
77.5°	20.6	22.5	23.5	24.1	24.4
80°	16.1	17.4	18.0	18.3	17.7
82.5°	11.9	12.9	13.2	13.2	12.2
85°	7.4	8.4	9.0	8.7	7.4
87.5°	3.5	4.8	5.1	4.5	3.5
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1175371
 CATALOG NUMBER: S125RDRP-S375D935-X4F0-XX-UDD-WVL-W

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	9.94	11.44	10.31	11.75	12.07	13.97	15.47	14.33	15.78	16.10
	3H	11.53	12.88	11.91	13.20	13.57	15.36	16.70	15.73	17.03	17.39
	4H	12.17	13.44	12.57	13.78	14.16	15.76	17.02	16.16	17.37	17.75
	6H	12.69	13.85	13.10	14.22	14.61	15.97	17.13	16.38	17.50	17.89
	8H	12.87	13.98	13.29	14.36	14.77	16.03	17.13	16.45	17.52	17.92
	12H	12.99	14.05	13.42	14.44	14.87	16.06	17.12	16.49	17.50	17.93
4H	2H	10.71	11.97	11.11	12.32	12.70	14.10	15.36	14.50	15.71	16.09
	3H	12.50	13.54	12.91	13.94	14.35	15.67	16.71	16.08	17.12	17.52
	4H	13.26	14.21	13.70	14.62	15.06	16.18	17.12	16.61	17.54	17.98
	6H	13.91	14.73	14.36	15.17	15.63	16.50	17.32	16.96	17.77	18.23
	8H	14.14	14.90	14.60	15.35	15.81	16.60	17.37	17.07	17.81	18.28
	12H	14.31	14.99	14.79	15.47	15.94	16.68	17.36	17.16	17.84	18.31
8H	4H	13.65	14.41	14.11	14.86	15.33	16.28	17.05	16.74	17.49	17.96
	6H	14.43	15.06	14.93	15.55	16.03	16.70	17.33	17.19	17.82	18.30
	8H	14.75	15.31	15.26	15.82	16.31	16.86	17.43	17.37	17.94	18.42
	12H	15.01	15.51	15.52	16.00	16.57	17.00	17.50	17.51	17.99	18.55
12H	4H	13.69	14.37	14.17	14.85	15.32	16.28	16.96	16.76	17.44	17.91
	6H	14.50	15.07	15.02	15.58	16.07	16.71	17.28	17.22	17.79	18.28
	8H	14.89	15.39	15.40	15.88	16.45	16.92	17.42	17.43	17.91	18.48