

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: P1061630

Luminaire Tested: S125RDRP-S375D850-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S375D850-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

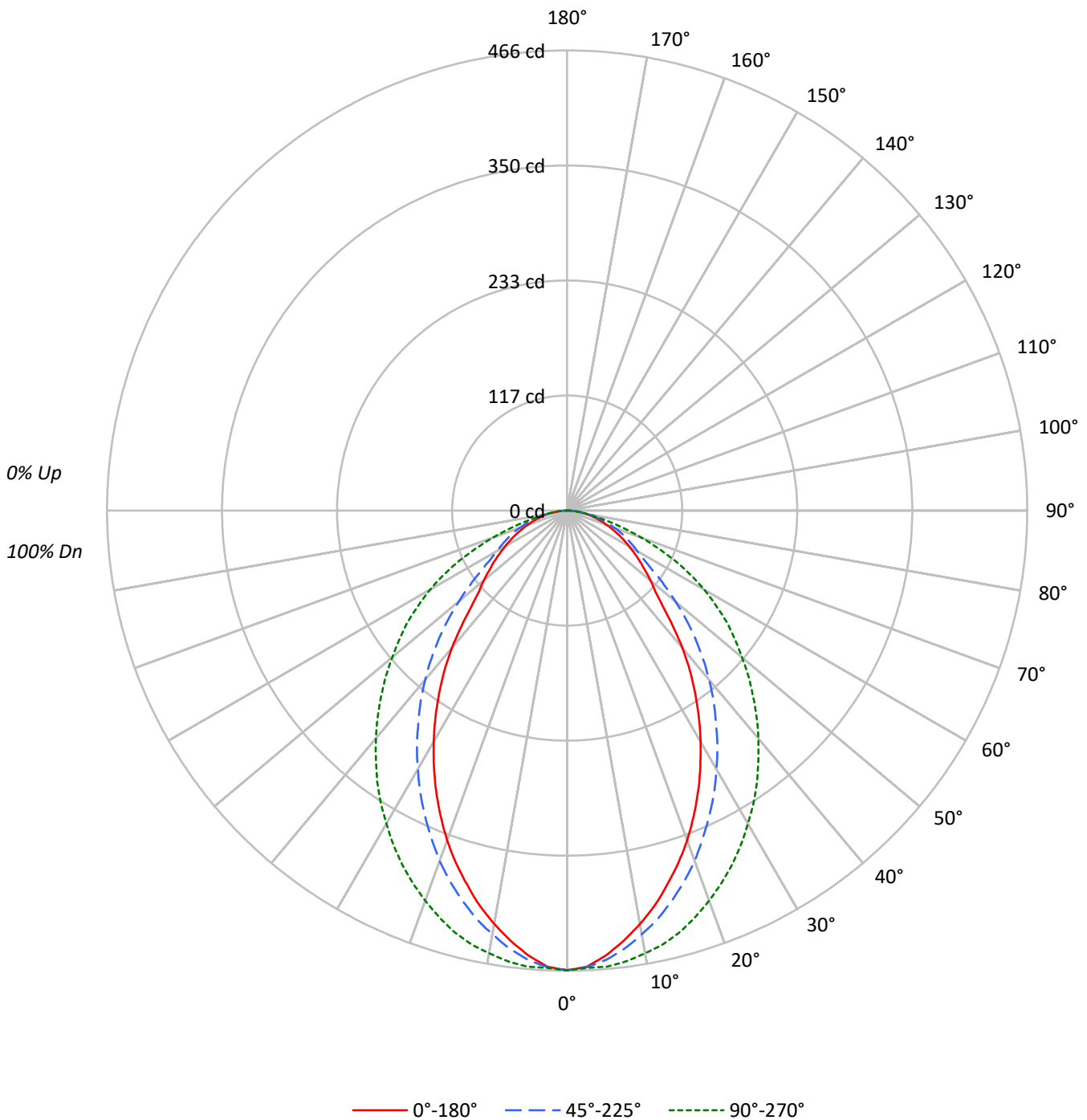
Lumens per Lamp: N/A
Luminaire Lumens: 872.6 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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: P1061630

CATALOG NUMBER: S125RDRP-S375D850-X4F0-XX-UDD-WVL-S

Luminous Intensity Polar Plot





TEST NUMBER: P1061630

CATALOG NUMBER: S125RDRP-S375D850-X4F0-XX-UDD-WVL-S

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	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	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	48	59	52	47	58	52	47	56	51	46	44
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3205	3205	3205
5°	3124	3156	3204
10°	2971	3046	3183
15°	2794	2917	3149
20°	2603	2767	3080
25°	2385	2589	3003
30°	2148	2403	2910
35°	1900	2208	2818
40°	1630	2011	2708
45°	1331	1789	2594
50°	1180	1534	2475
55°	1083	1272	2372
60°	998	1126	2209
65°	932	1083	1970
70°	870	1031	1610
75°	803	966	1186
80°	757	904	868
85°	695	885	735

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2594 cd/sqm



TEST NUMBER: P1061630

CATALOG NUMBER: S125RDRP-S375D850-X4F0-XX-UDD-WVL-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.1	4.9
10°-20°	116.0	13.3
20°-30°	159.5	18.3
30°-40°	169.0	19.4
40°-50°	147.5	16.9
50°-60°	112.1	12.8
60°-70°	75.1	8.6
70°-80°	38.7	4.4
80°-90°	11.6	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°	318.6	36.5
0°-40°	487.6	55.9
0°-60°	747.2	85.6
0°-90°	872.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	872.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	466	466	466	466	466	
5°	452	457	457	460	464	42
15°	392	399	409	427	442	110
25°	314	324	341	369	395	144
35°	226	239	263	300	335	141
45°	137	150	184	227	266	108
55°	90	93	106	156	198	81
65°	57	59	66	89	121	57
75°	30	32	36	39	45	32
85°	9	11	11	10	9	10
90°	0	0	0	0	0	



TEST NUMBER: P1061630

CATALOG NUMBER: S125RDRP-S375D850-X4F0-XX-UDD-WVL-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	465.5	465.5	465.5	465.5	465.5
2.5°	462.2	465.5	462.7	462.7	463.6
5°	452.0	456.6	456.6	459.9	463.6
7.5°	439.4	444.5	447.3	454.8	460.4
10°	425.0	430.6	435.7	446.9	455.2
12.5°	409.7	415.7	423.6	438.0	449.7
15°	392.0	399.4	409.2	427.3	441.8
17.5°	374.3	381.8	393.9	415.2	431.5
20°	355.3	363.2	377.6	400.8	420.4
22.5°	334.8	343.6	359.0	385.5	408.3
25°	313.9	323.6	340.8	369.2	395.3
27.5°	292.0	303.6	322.2	352.5	381.3
30°	270.2	281.8	302.3	335.3	366.0
32.5°	248.3	260.9	283.2	318.1	351.1
35°	226.0	239.0	262.7	299.9	335.3
37.5°	204.1	217.2	243.7	282.3	318.1
40°	181.4	194.8	223.7	264.1	301.3
42.5°	158.1	172.5	203.7	245.5	284.1
45°	136.7	150.2	183.7	227.4	266.4
47.5°	120.9	129.7	163.7	208.8	249.2
50°	110.2	114.9	143.2	190.7	231.1
52.5°	99.5	103.2	124.2	172.1	213.9
55°	90.2	93.0	106.0	155.8	197.6
57.5°	80.9	83.7	92.1	139.5	178.6
60°	72.5	74.9	81.8	122.3	160.4
62.5°	64.6	66.5	73.9	106.0	140.9
65°	57.2	58.6	66.5	88.8	120.9
67.5°	49.8	51.2	59.1	72.5	99.5
70°	43.2	43.7	51.2	59.1	80.0
72.5°	36.7	37.2	43.2	47.9	61.4
75°	30.2	32.1	36.3	38.6	44.6
77.5°	24.6	27.0	29.3	30.2	30.2
80°	19.1	21.9	22.8	22.8	21.9
82.5°	14.0	16.3	16.7	15.8	14.9
85°	8.8	11.2	11.2	10.2	9.3
87.5°	4.2	6.0	6.0	5.6	4.2
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1061630
 CATALOG NUMBER: S125RDRP-S375D850-X4F0-XX-UDD-WVL-S

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	10.65	12.15	11.02	12.46	12.78	14.58	16.08	14.95	16.39	16.71
	3H	12.23	13.57	12.60	13.90	14.26	16.00	17.35	16.38	17.67	18.04
	4H	12.84	14.10	13.24	14.45	14.82	16.42	17.68	16.82	18.03	18.40
	6H	13.33	14.50	13.75	14.86	15.25	16.63	17.80	17.05	18.16	18.56
	8H	13.51	14.61	13.93	15.00	15.41	16.69	17.80	17.12	18.19	18.59
	12H	13.63	14.69	14.06	15.07	15.50	16.73	17.79	17.16	18.17	18.60
4H	2H	11.39	12.65	11.79	13.00	13.38	14.71	15.97	15.11	16.32	16.69
	3H	13.17	14.21	13.58	14.61	15.02	16.32	17.36	16.73	17.76	18.16
	4H	13.91	14.85	14.34	15.26	15.70	16.84	17.78	17.28	18.20	18.64
	6H	14.54	15.36	15.00	15.80	16.26	17.19	18.00	17.64	18.45	18.91
	8H	14.77	15.54	15.24	15.98	16.45	17.29	18.05	17.75	18.49	18.96
	12H	14.95	15.63	15.43	16.11	16.58	17.36	18.04	17.84	18.52	18.99
8H	4H	14.31	15.07	14.77	15.51	15.98	16.95	17.72	17.41	18.16	18.63
	6H	15.09	15.73	15.59	16.22	16.69	17.39	18.02	17.89	18.51	18.99
	8H	15.42	15.99	15.93	16.50	16.98	17.55	18.11	18.06	18.62	19.11
	12H	15.69	16.19	16.20	16.69	17.25	17.68	18.18	18.19	18.68	19.24
12H	4H	14.35	15.03	14.83	15.51	15.98	16.95	17.63	17.43	18.11	18.58
	6H	15.18	15.74	15.69	16.25	16.74	17.41	17.97	17.92	18.48	18.97
	8H	15.57	16.07	16.08	16.57	17.13	17.61	18.12	18.12	18.61	19.17