

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: P1061609

Luminaire Tested: S125RDRP-S375D835-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061609
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-86)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S375D835-X4F0-XX-UDD-SVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

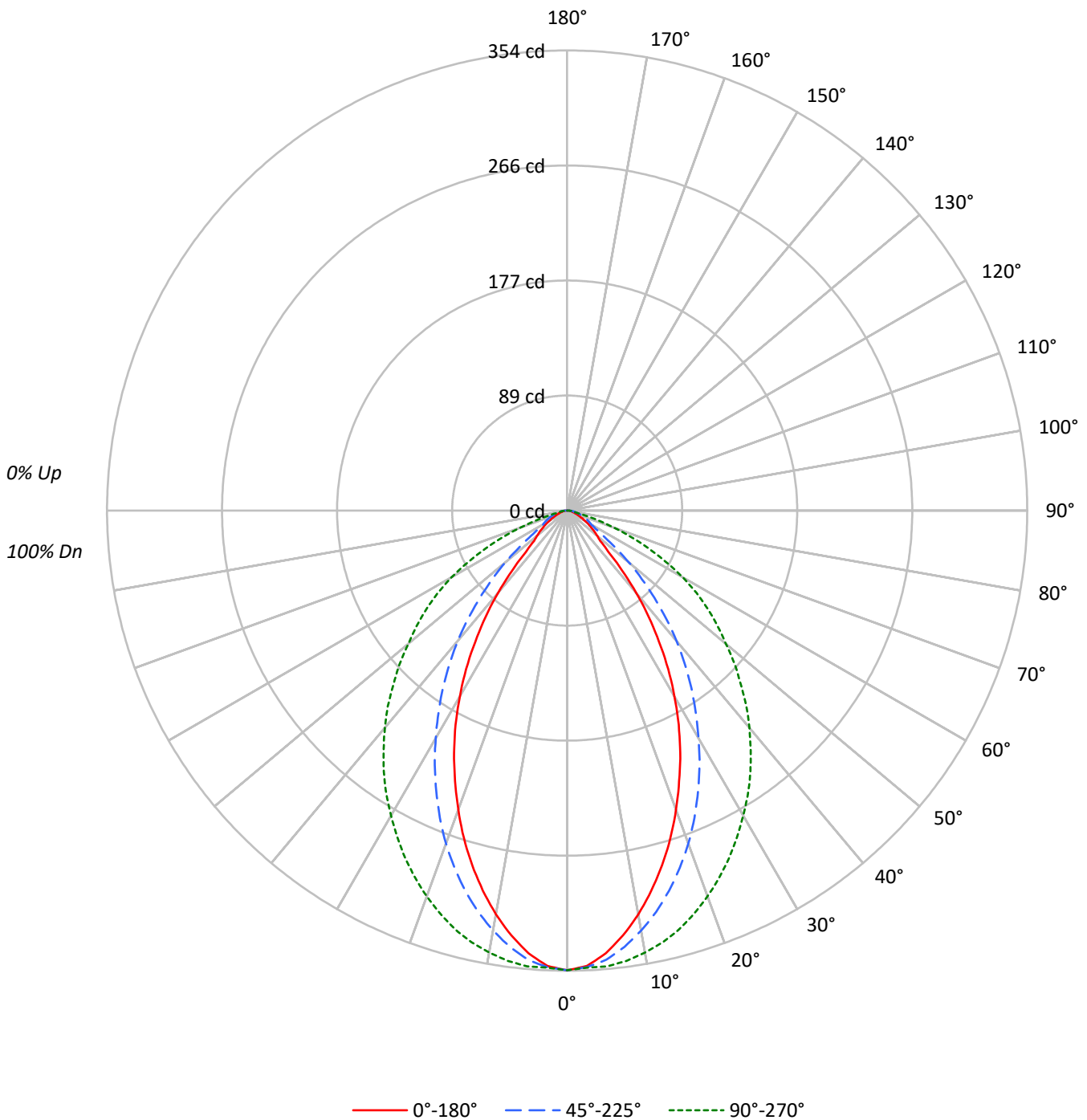
Lumens per Lamp: N/A
Luminaire Lumens: 510.5 lumens
Efficiency: N/A
Efficacy: 40.8 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

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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	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	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89																												
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79																												
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70																												
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63																												
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56																												
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51																												
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46																												
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42																												
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39																												
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2435	2435	2435
5°	2362	2397	2432
10°	2205	2293	2413
15°	2012	2158	2377
20°	1794	1997	2314
25°	1564	1810	2240
30°	1313	1608	2154
35°	1036	1399	2066
40°	742	1177	1960
45°	437	923	1837
50°	323	665	1707
55°	271	403	1586
60°	219	295	1416
65°	171	280	1134
70°	143	262	769
75°	133	234	335
80°	135	234	218
85°	166	300	229

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1837 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.6	6.4
10°-20°	85.6	16.8
20°-30°	111.8	21.9
30°-40°	108.9	21.3
40°-50°	81.4	15.9
50°-60°	50.5	9.9
60°-70°	26.5	5.2
70°-80°	9.7	1.9
80°-90°	3.7	0.7
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°	230.0	45.1
0°-40°	338.9	66.4
0°-60°	470.7	92.2
0°-90°	510.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	510.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	354	354	354	354	354	
5°	342	346	347	349	352	32
15°	282	291	303	321	333	79
25°	206	216	238	270	295	94
35°	123	137	166	211	246	77
45°	45	59	95	148	189	38
55°	23	24	34	87	132	20
65°	10	11	17	37	70	11
75°	5	6	9	10	13	5
85°	2	4	4	4	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	353.6	353.6	353.6	353.6	353.6
2.5°	350.6	353.6	351.5	351.5	351.9
5°	341.8	346.4	346.8	348.9	351.9
7.5°	329.6	335.1	338.5	344.7	349.4
10°	315.4	321.7	328.0	338.5	345.2
12.5°	299.5	307.0	316.2	330.5	340.1
15°	282.3	290.6	302.8	321.3	333.4
17.5°	264.2	273.0	288.1	310.4	325.0
20°	244.9	254.6	272.6	297.8	315.8
22.5°	225.2	236.1	255.8	284.4	305.7
25°	205.9	216.4	238.2	270.5	294.8
27.5°	185.8	196.7	220.6	256.3	283.1
30°	165.2	177.0	202.2	241.6	270.9
32.5°	144.7	156.9	184.1	226.5	258.8
35°	123.3	136.7	166.5	211.0	245.8
37.5°	103.2	117.4	148.5	195.0	231.9
40°	82.6	97.3	130.9	179.5	218.1
42.5°	62.5	77.6	112.8	163.6	204.2
45°	44.9	58.7	94.8	148.0	188.7
47.5°	34.4	42.4	78.0	132.1	174.9
50°	30.2	32.7	62.1	116.6	159.4
52.5°	26.4	28.1	46.1	101.5	146.0
55°	22.6	23.9	33.6	87.2	132.1
57.5°	19.3	20.6	25.6	74.2	117.9
60°	15.9	17.2	21.4	61.2	102.8
62.5°	13.4	13.8	19.3	49.1	86.0
65°	10.5	11.3	17.2	36.9	69.6
67.5°	8.8	9.2	15.1	26.4	53.7
70°	7.1	7.5	13.0	18.5	38.2
72.5°	6.3	6.3	10.9	13.4	24.3
75°	5.0	5.9	8.8	9.6	12.6
77.5°	4.2	5.9	7.5	7.1	6.7
80°	3.4	5.5	5.9	5.9	5.5
82.5°	2.9	4.6	5.0	4.6	4.2
85°	2.1	3.8	3.8	3.8	2.9
87.5°	1.7	3.4	2.9	2.9	2.1
90°	0.0	0.0	0.0	0.0	0.0



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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	2.89	4.24	3.26	4.55	4.87	12.58	13.93	12.95	14.24	14.56
	3H	3.72	4.92	4.10	5.25	5.61	13.49	14.69	13.87	15.02	15.39
	4H	4.08	5.20	4.48	5.55	5.93	13.59	14.71	13.99	15.06	15.44
	6H	4.46	5.48	4.87	5.85	6.25	13.58	14.60	13.99	14.97	15.37
	8H	4.64	5.61	5.07	6.00	6.40	13.57	14.54	14.00	14.93	15.33
	12H	4.80	5.73	5.23	6.11	6.54	13.55	14.48	13.98	14.86	15.29
4H	2H	3.72	4.83	4.12	5.18	5.57	12.43	13.55	12.83	13.90	14.28
	3H	4.77	5.68	5.18	6.08	6.49	13.42	14.34	13.83	14.74	15.14
	4H	5.22	6.04	5.66	6.46	6.90	13.55	14.37	13.98	14.79	15.23
	6H	5.79	6.49	6.25	6.94	7.41	13.58	14.29	14.04	14.73	15.20
	8H	6.05	6.70	6.51	7.15	7.62	13.58	14.24	14.05	14.69	15.16
	12H	6.29	6.87	6.77	7.35	7.83	13.59	14.17	14.08	14.66	15.13
8H	4H	5.78	6.44	6.24	6.88	7.35	13.47	14.13	13.94	14.58	15.05
	6H	6.56	7.10	7.06	7.60	8.08	13.53	14.07	14.04	14.57	15.05
	8H	6.98	7.46	7.50	7.98	8.47	13.56	14.05	14.08	14.56	15.05
	12H	7.39	7.82	7.91	8.32	8.89	13.62	14.05	14.13	14.54	15.11
12H	4H	5.84	6.42	6.32	6.90	7.38	13.44	14.02	13.93	14.51	14.98
	6H	6.71	7.19	7.23	7.71	8.20	13.50	13.99	14.02	14.50	14.99
	8H	7.23	7.66	7.74	8.15	8.72	13.57	13.99	14.08	14.49	15.06