

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: P1061626

Luminaire Tested: S125RDRP-S375D850-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061626
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S375D850-X4F0-XX-UDD-SVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

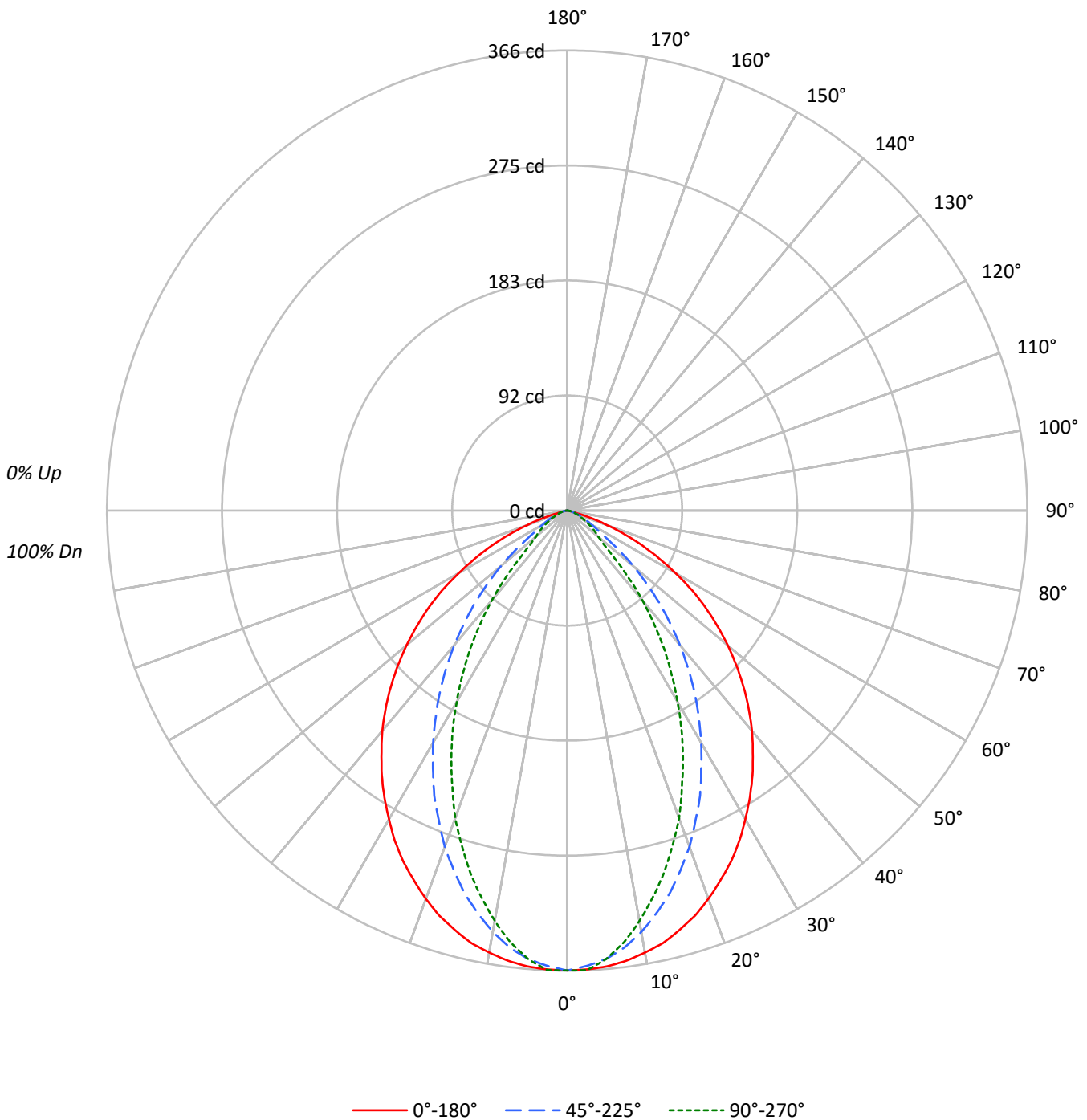
Lumens per Lamp: N/A
Luminaire Lumens: 529.0 lumens
Efficiency: N/A
Efficacy: 42.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2519	2519	2519
5°	2515	2474	2474
10°	2496	2378	2317
15°	2461	2246	2123
20°	2408	2085	1907
25°	2341	1900	1656
30°	2254	1696	1397
35°	2160	1484	1133
40°	2056	1253	839
45°	1933	1005	507
50°	1788	737	348
55°	1612	451	290
60°	1370	307	230
65°	1083	235	182
70°	682	169	149
75°	223	122	122
80°	75	91	111
85°	39	71	71

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1933 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.8	6.4
10°-20°	89.3	16.9
20°-30°	117.5	22.2
30°-40°	115.5	21.8
40°-50°	87.4	16.5
50°-60°	53.0	10.0
60°-70°	25.0	4.7
70°-80°	6.5	1.2
80°-90°	1.0	0.2
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°	240.7	45.5
0°-40°	356.2	67.3
0°-60°	496.5	93.9
0°-90°	529.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	529.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	366	366	366	366	366	
5°	364	363	358	358	358	35
15°	345	336	315	303	298	97
25°	308	285	250	227	218	142
35°	257	223	177	146	135	160
45°	198	156	103	66	52	153
55°	134	92	38	26	24	120
65°	66	34	14	12	11	65
75°	8	6	5	5	5	13
85°	0	0	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	365.8	365.8	365.8	365.8	365.8
2.5°	365.3	365.3	362.5	365.8	365.8
5°	363.9	363.0	357.9	358.4	357.9
7.5°	361.1	359.3	350.5	348.1	346.3
10°	357.0	353.2	340.2	334.7	331.4
12.5°	352.3	345.8	328.1	320.2	315.1
15°	345.3	336.0	315.1	303.0	297.9
17.5°	337.9	324.4	299.8	285.4	278.9
20°	328.6	312.8	284.5	266.8	260.3
22.5°	318.4	299.8	266.8	247.3	238.4
25°	308.2	284.9	250.1	226.8	218.0
27.5°	296.5	270.0	231.0	206.8	197.1
30°	283.5	255.2	213.3	188.2	175.7
32.5°	270.5	239.8	194.7	167.3	154.8
35°	257.0	222.6	176.6	145.5	134.8
37.5°	242.6	206.4	158.0	125.5	112.9
40°	228.7	190.1	139.4	105.0	93.4
42.5°	213.8	173.8	120.8	85.1	72.0
45°	198.5	156.2	103.2	65.5	52.1
47.5°	182.7	140.4	85.5	48.3	39.0
50°	166.9	123.6	68.8	35.8	32.5
52.5°	150.6	107.4	52.1	29.7	28.4
55°	134.3	92.0	37.6	25.6	24.2
57.5°	117.6	75.3	28.4	21.8	20.5
60°	99.5	60.4	22.3	18.1	16.7
62.5°	82.7	47.4	18.1	14.9	13.9
65°	66.5	33.9	14.4	12.1	11.2
67.5°	49.7	22.8	11.2	9.3	9.3
70°	33.9	14.9	8.4	7.4	7.4
72.5°	20.5	8.8	6.0	6.0	6.0
75°	8.4	5.6	4.6	4.6	4.6
77.5°	2.8	3.3	3.3	3.7	3.7
80°	1.9	1.9	2.3	2.8	2.8
82.5°	0.9	1.4	1.4	1.9	1.9
85°	0.5	0.5	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.5	0.5
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	12.54	13.87	12.90	14.18	14.50	3.19	4.52	3.55	4.83	5.14
	3H	13.24	14.42	13.62	14.75	15.12	3.97	5.14	4.34	5.47	5.84
	4H	13.26	14.36	13.66	14.71	15.09	4.21	5.31	4.61	5.66	6.04
	6H	13.19	14.20	13.61	14.57	14.96	4.39	5.39	4.80	5.76	6.16
	8H	13.15	14.10	13.58	14.49	14.90	4.44	5.39	4.87	5.78	6.18
	12H	13.11	14.02	13.54	14.40	14.83	4.44	5.35	4.88	5.74	6.17
4H	2H	12.37	13.47	12.77	13.82	14.20	3.67	4.77	4.08	5.12	5.50
	3H	13.12	14.01	13.53	14.41	14.81	4.58	5.47	4.99	5.87	6.28
	4H	13.13	13.93	13.57	14.35	14.79	4.89	5.68	5.32	6.10	6.54
	6H	13.07	13.76	13.54	14.20	14.67	5.15	5.83	5.61	6.28	6.74
	8H	13.02	13.66	13.49	14.11	14.58	5.22	5.85	5.69	6.30	6.77
	12H	12.98	13.54	13.46	14.02	14.50	5.24	5.80	5.73	6.29	6.76
8H	4H	13.02	13.65	13.49	14.10	14.57	5.00	5.64	5.47	6.08	6.56
	6H	12.94	13.46	13.45	13.96	14.44	5.32	5.84	5.82	6.33	6.82
	8H	12.89	13.35	13.41	13.87	14.36	5.43	5.90	5.95	6.41	6.90
	12H	12.85	13.26	13.36	13.75	14.33	5.49	5.90	6.01	6.40	6.97
12H	4H	12.97	13.54	13.46	14.02	14.49	4.97	5.53	5.46	6.02	6.49
	6H	12.88	13.35	13.41	13.87	14.36	5.29	5.76	5.81	6.27	6.76
	8H	12.85	13.26	13.37	13.76	14.33	5.44	5.85	5.95	6.34	6.91