

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: P1061653

Luminaire Tested: S125RDRP-S375D935-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061653
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-S375D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

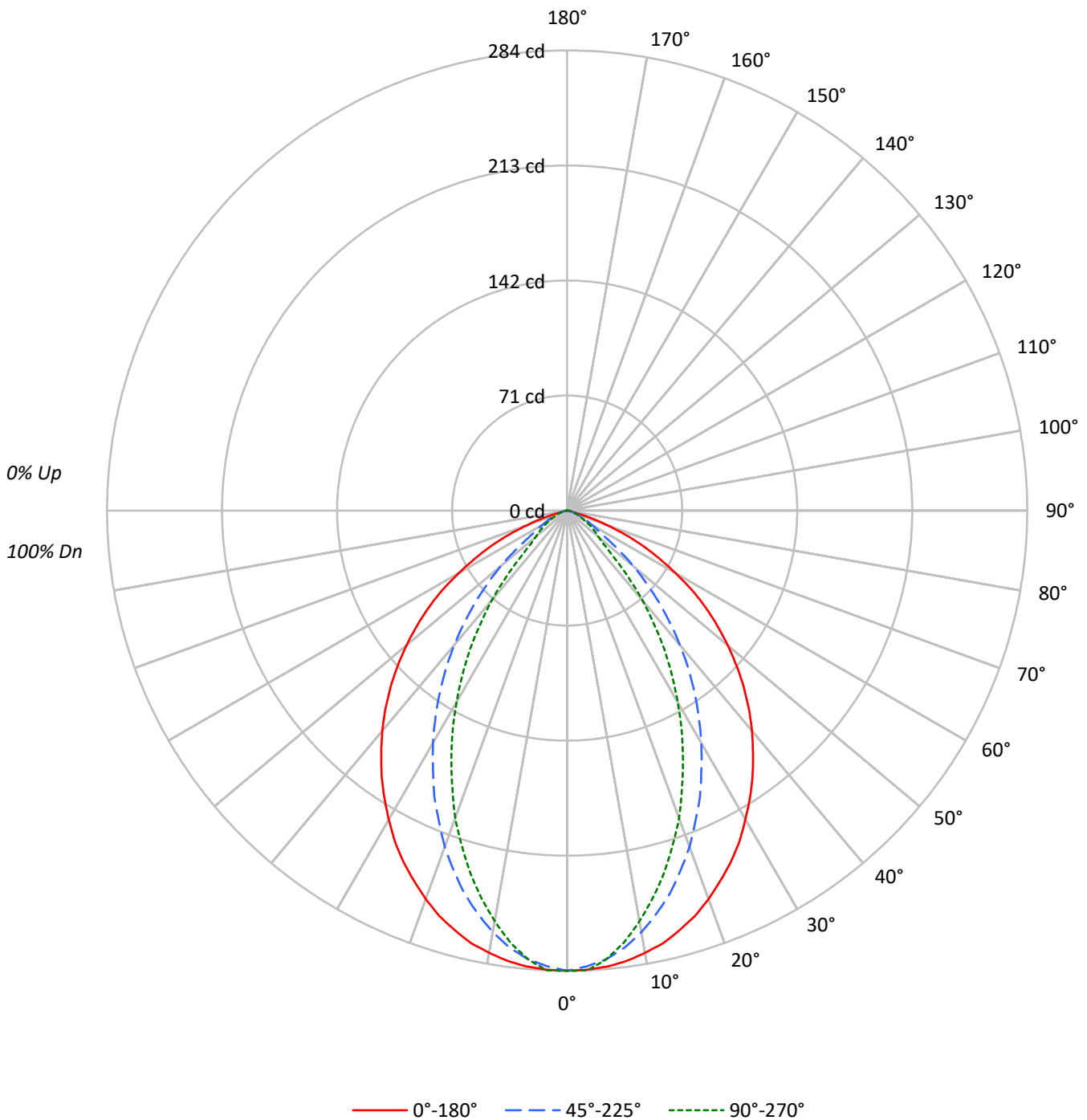
Lumens per Lamp: N/A
Luminaire Lumens: 410.7 lumens
Efficiency: N/A
Efficacy: 32.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	1955	1955	1955
5°	1953	1921	1921
10°	1937	1846	1799
15°	1911	1744	1649
20°	1869	1618	1481
25°	1817	1475	1285
30°	1750	1317	1084
35°	1678	1152	879
40°	1595	973	652
45°	1501	780	393
50°	1387	572	271
55°	1252	351	226
60°	1063	238	179
65°	841	182	142
70°	529	131	117
75°	173	96	96
80°	56	71	87
85°	32	55	55

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1501 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.3	6.4
10°-20°	69.4	16.9
20°-30°	91.2	22.2
30°-40°	89.6	21.8
40°-50°	67.8	16.5
50°-60°	41.1	10.0
60°-70°	19.4	4.7
70°-80°	5.1	1.2
80°-90°	0.8	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°	186.9	45.5
0°-40°	276.5	67.3
0°-60°	385.5	93.9
0°-90°	410.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	410.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	284	284	284	284	284	
5°	282	282	278	278	278	27
15°	268	261	245	235	231	76
25°	239	221	194	176	169	110
35°	200	173	137	113	105	125
45°	154	121	80	51	40	119
55°	104	71	29	20	19	93
65°	52	26	11	9	9	51
75°	6	4	4	4	4	10
85°	0	0	1	1	1	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	284.0	284.0	284.0	284.0	284.0
2.5°	283.6	283.6	281.5	284.0	284.0
5°	282.5	281.8	277.9	278.2	277.9
7.5°	280.4	278.9	272.1	270.3	268.8
10°	277.1	274.2	264.1	259.8	257.3
12.5°	273.5	268.5	254.8	248.6	244.7
15°	268.1	260.9	244.7	235.3	231.3
17.5°	262.3	251.9	232.8	221.6	216.5
20°	255.1	242.9	220.8	207.1	202.1
22.5°	247.2	232.8	207.1	192.0	185.1
25°	239.2	221.2	194.1	176.1	169.2
27.5°	230.2	209.7	179.3	160.6	153.0
30°	220.1	198.1	165.6	146.1	136.4
32.5°	210.0	186.2	151.2	129.9	120.2
35°	199.6	172.8	137.1	112.9	104.6
37.5°	188.4	160.2	122.7	97.4	87.7
40°	177.5	147.6	108.3	81.6	72.5
42.5°	166.0	135.0	93.8	66.0	55.9
45°	154.1	121.2	80.1	50.9	40.4
47.5°	141.8	109.0	66.4	37.5	30.3
50°	129.5	96.0	53.4	27.8	25.3
52.5°	116.9	83.4	40.4	23.1	22.0
55°	104.3	71.4	29.2	19.8	18.8
57.5°	91.3	58.5	22.0	17.0	15.9
60°	77.2	46.9	17.3	14.1	13.0
62.5°	64.2	36.8	14.1	11.5	10.8
65°	51.6	26.3	11.2	9.4	8.7
67.5°	38.6	17.7	8.7	7.2	7.2
70°	26.3	11.5	6.5	5.8	5.8
72.5°	15.9	6.9	4.7	4.7	4.7
75°	6.5	4.3	3.6	3.6	3.6
77.5°	2.2	2.5	2.5	2.9	2.9
80°	1.4	1.4	1.8	2.2	2.2
82.5°	0.7	1.1	1.1	1.4	1.4
85°	0.4	0.4	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.4	0.4
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	11.66	12.99	12.03	13.31	13.62	2.33	3.66	2.69	3.97	4.29
	3H	12.37	13.54	12.75	13.87	14.24	3.11	4.29	3.49	4.61	4.98
	4H	12.38	13.48	12.79	13.83	14.21	3.36	4.45	3.76	4.80	5.18
	6H	12.31	13.32	12.73	13.69	14.08	3.54	4.54	3.95	4.91	5.31
	8H	12.27	13.22	12.70	13.62	14.02	3.58	4.53	4.01	4.92	5.33
	12H	12.23	13.14	12.66	13.52	13.95	3.58	4.49	4.02	4.88	5.31
4H	2H	11.49	12.59	11.90	12.94	13.32	2.82	3.91	3.22	4.26	4.65
	3H	12.24	13.13	12.65	13.53	13.94	3.72	4.61	4.13	5.02	5.42
	4H	12.26	13.05	12.69	13.47	13.91	4.03	4.83	4.47	5.25	5.69
	6H	12.19	12.88	12.66	13.32	13.79	4.30	4.98	4.76	5.43	5.89
	8H	12.14	12.78	12.61	13.23	13.70	4.36	5.00	4.83	5.44	5.92
	12H	12.10	12.66	12.59	13.14	13.62	4.38	4.94	4.87	5.43	5.90
8H	4H	12.14	12.78	12.61	13.22	13.69	4.14	4.78	4.61	5.23	5.70
	6H	12.06	12.58	12.57	13.08	13.56	4.47	4.99	4.97	5.48	5.96
	8H	12.01	12.47	12.53	12.99	13.48	4.57	5.03	5.09	5.55	6.04
	12H	11.97	12.38	12.48	12.87	13.45	4.62	5.03	5.14	5.53	6.10
12H	4H	12.09	12.66	12.58	13.14	13.61	4.11	4.68	4.60	5.16	5.63
	6H	12.00	12.47	12.53	12.99	13.48	4.44	4.90	4.96	5.42	5.91
	8H	11.97	12.38	12.49	12.88	13.45	4.57	4.98	5.09	5.48	6.05