

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: P1061641

Luminaire Tested: S125RDRP-S375D930-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-48)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S375D930-X4F0-XX-UDD-BVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

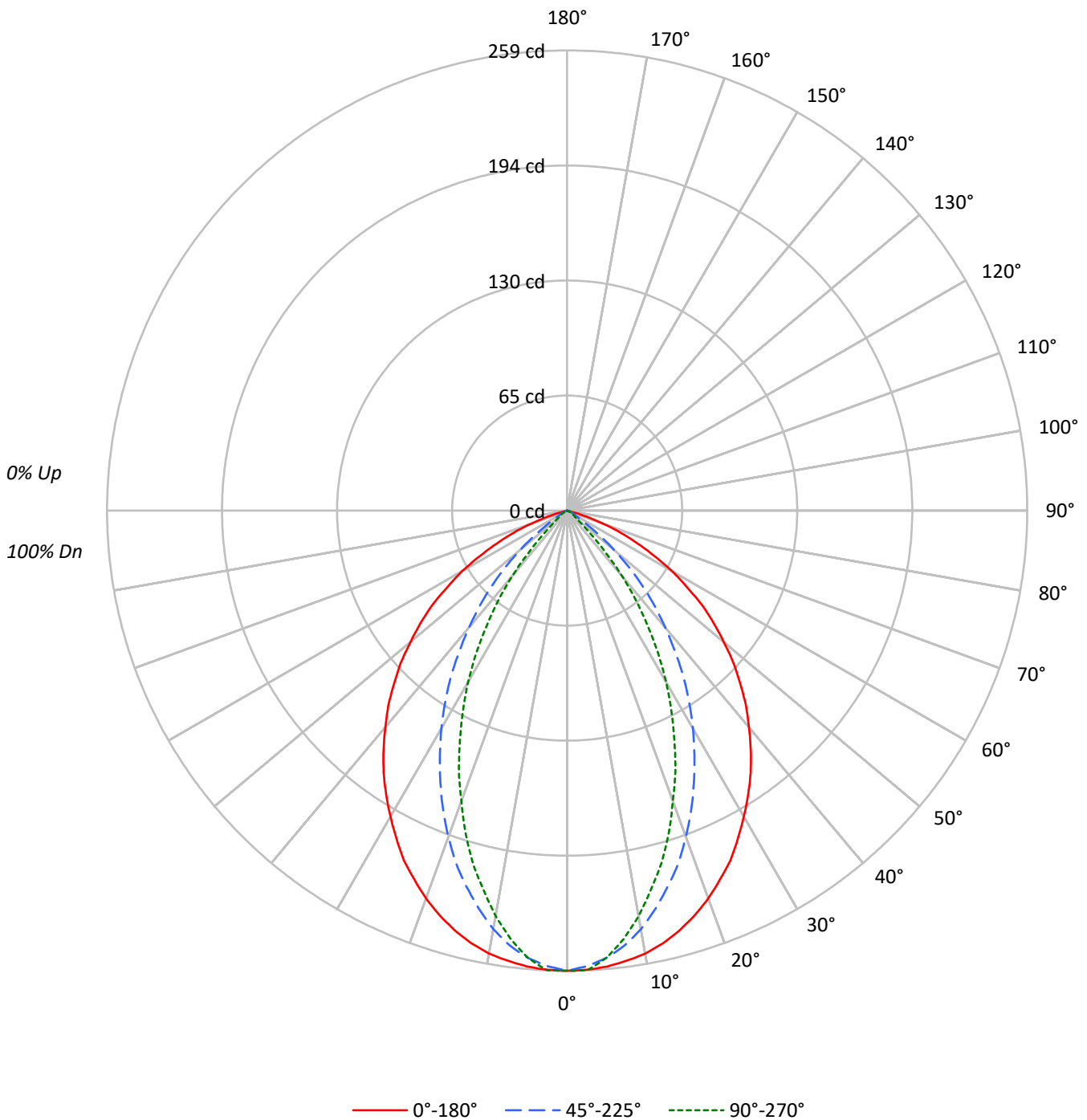
Lumens per Lamp: N/A
Luminaire Lumens: 334.6 lumens
Efficiency: N/A
Efficacy: 26.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1783	1783	1783
5°	1780	1747	1747
10°	1770	1672	1620
15°	1744	1561	1463
20°	1702	1432	1274
25°	1651	1282	1085
30°	1581	1125	886
35°	1514	959	663
40°	1431	774	430
45°	1341	585	186
50°	1233	374	70
55°	1112	164	49
60°	941	70	33
65°	712	44	16
70°	433	20	6
75°	90	8	8
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1341 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.9	7.1
10°-20°	62.2	18.6
20°-30°	79.9	23.9
30°-40°	75.2	22.5
40°-50°	52.6	15.7
50°-60°	28.1	8.4
60°-70°	11.2	3.4
70°-80°	1.4	0.4
80°-90°	0.0	0.0
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°	166.0	49.6
0°-40°	241.2	72.1
0°-60°	321.9	96.2
0°-90°	334.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	334.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	259	259	259	259	259	
5°	258	257	253	254	253	24
15°	245	237	219	209	205	69
25°	217	198	169	150	143	100
35°	180	151	114	88	79	112
45°	138	103	60	29	19	106
55°	93	57	14	5	4	82
65°	44	17	3	1	1	44
75°	3	1	0	0	0	7
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	259.0	259.0	259.0	259.0	259.0
2.5°	258.7	259.0	256.6	258.7	259.0
5°	257.6	256.9	252.8	253.5	252.8
7.5°	255.6	253.9	247.0	244.6	243.3
10°	253.2	249.4	239.2	234.1	231.7
12.5°	249.4	244.0	229.6	221.7	218.3
15°	244.6	236.8	219.0	208.8	205.3
17.5°	238.8	228.6	208.1	195.4	190.3
20°	232.3	218.7	195.4	180.4	173.9
22.5°	224.8	209.1	182.5	165.7	159.2
25°	217.3	198.2	168.8	150.3	142.8
27.5°	208.1	186.9	155.1	135.3	127.1
30°	198.9	175.6	141.5	119.9	111.4
32.5°	189.6	163.7	127.8	103.9	95.3
35°	180.1	151.4	114.1	88.2	78.9
37.5°	169.8	139.1	99.4	73.1	63.6
40°	159.2	127.1	86.1	58.4	47.8
42.5°	149.0	115.1	72.8	44.1	32.5
45°	137.7	103.2	60.1	29.0	19.1
47.5°	127.1	91.6	47.2	16.7	9.9
50°	115.1	79.6	34.9	8.9	6.5
52.5°	103.9	68.0	23.2	5.8	5.1
55°	92.6	56.7	13.7	4.8	4.1
57.5°	79.6	45.8	7.5	3.8	3.1
60°	68.3	35.9	5.1	2.7	2.4
62.5°	55.4	26.3	3.8	2.1	1.7
65°	43.7	17.4	2.7	1.4	1.0
67.5°	32.5	10.3	1.7	0.7	0.7
70°	21.5	5.5	1.0	0.3	0.3
72.5°	11.3	2.4	0.7	0.3	0.3
75°	3.4	1.0	0.3	0.3	0.3
77.5°	0.0	0.3	0.0	0.0	0.3
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
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	10.96	12.22	11.32	12.53	12.85	0.00	0.00	0.00	0.00	0.00
	3H	11.54	12.65	11.92	12.98	13.35	0.00	0.00	0.00	0.00	0.00
	4H	11.50	12.54	11.91	12.89	13.27	0.00	0.00	0.00	0.00	0.00
	6H	11.42	12.36	11.83	12.74	13.13	0.00	0.00	0.00	0.00	0.00
	8H	11.37	12.27	11.80	12.66	13.06	0.00	0.00	0.00	0.00	0.00
	12H	11.33	12.18	11.76	12.56	12.99	0.00	0.00	0.00	0.00	0.00
4H	2H	10.73	11.76	11.13	12.11	12.50	0.00	0.00	0.00	0.00	0.00
	3H	11.32	12.16	11.74	12.56	12.97	0.00	0.00	0.00	0.00	0.00
	4H	11.27	12.01	11.71	12.43	12.88	0.00	0.00	0.00	0.00	0.00
	6H	11.18	11.82	11.65	12.27	12.74	0.00	0.00	0.00	0.00	0.00
	8H	11.12	11.72	11.60	12.17	12.64	0.00	0.00	0.00	0.00	0.00
	12H	11.07	11.59	11.56	12.08	12.55	0.00	0.00	0.00	0.00	0.00
8H	4H	11.12	11.72	11.60	12.17	12.64	0.00	0.00	0.00	0.00	0.00
	6H	11.02	11.50	11.52	12.00	12.48	0.00	0.00	0.00	0.00	0.00
	8H	10.95	11.38	11.48	11.90	12.39	0.00	0.00	0.00	0.00	0.00
	12H	10.90	11.28	11.42	11.78	12.35	0.00	0.00	0.00	0.00	0.00
12H	4H	11.07	11.59	11.56	12.08	12.55	0.00	0.00	0.00	0.00	0.00
	6H	10.95	11.38	11.48	11.90	12.39	0.00	0.00	0.00	0.00	0.00
	8H	10.90	11.28	11.42	11.78	12.35	0.00	0.00	0.00	0.00	0.00