

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: P1061635

Luminaire Tested: S125RDRP-S375D927-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061635
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-S375D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

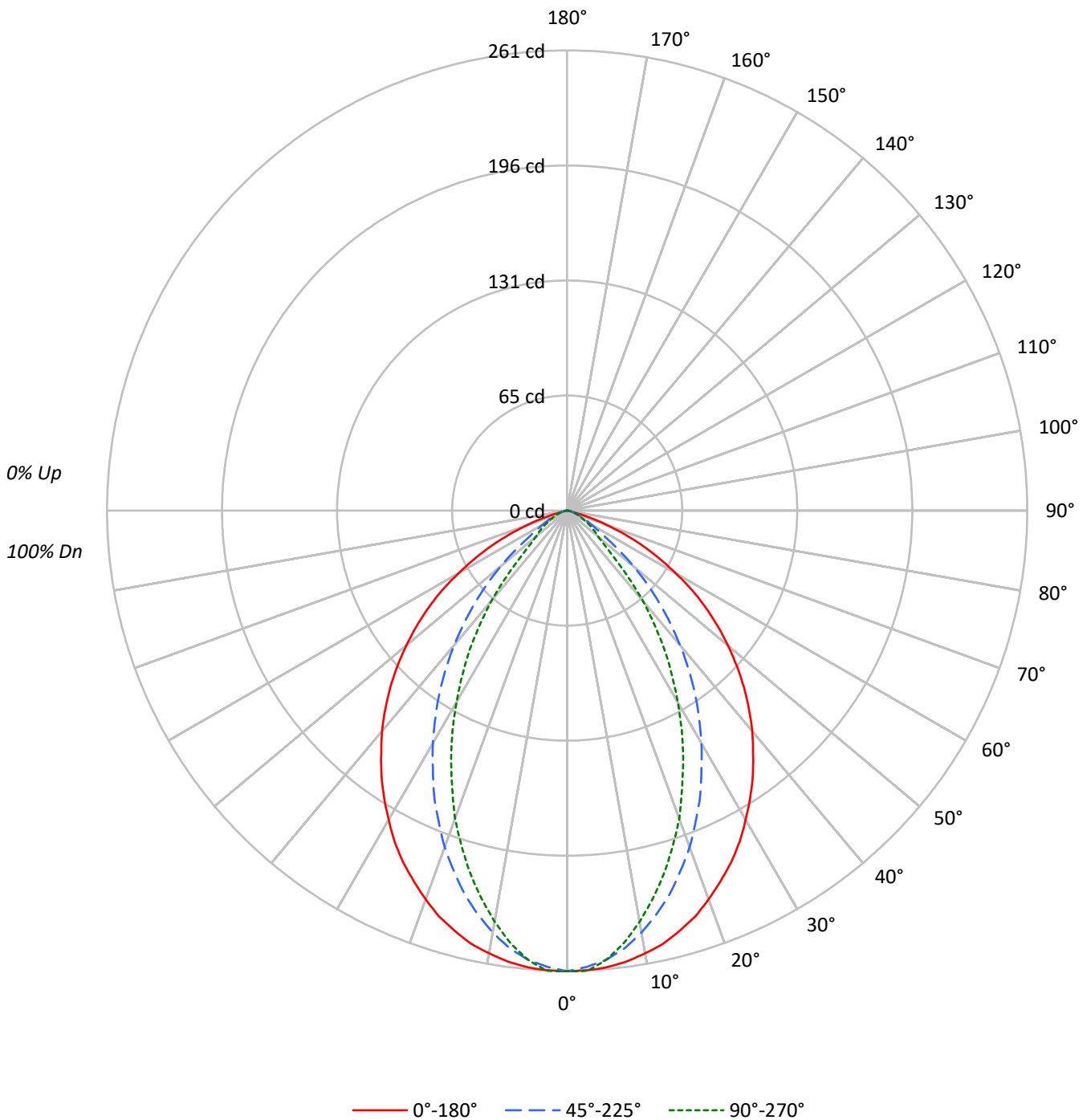
Lumens per Lamp: N/A
Luminaire Lumens: 377.9 lumens
Efficiency: N/A
Efficacy: 30.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	1799	1799	1799
5°	1797	1767	1767
10°	1783	1699	1655
15°	1759	1605	1517
20°	1720	1489	1362
25°	1672	1357	1183
30°	1610	1212	998
35°	1543	1061	809
40°	1469	895	600
45°	1381	718	362
50°	1277	526	249
55°	1152	323	208
60°	979	219	165
65°	774	168	130
70°	487	121	107
75°	160	88	88
80°	52	67	79
85°	24	55	55

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1381 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.2	6.4
10°-20°	63.8	16.9
20°-30°	83.9	22.2
30°-40°	82.5	21.8
40°-50°	62.4	16.5
50°-60°	37.8	10.0
60°-70°	17.9	4.7
70°-80°	4.7	1.2
80°-90°	0.7	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°	171.9	45.5
0°-40°	254.4	67.3
0°-60°	354.7	93.9
0°-90°	377.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	377.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	261	261	261	261	261	
5°	260	259	256	256	256	25
15°	247	240	225	216	213	69
25°	220	204	179	162	156	101
35°	184	159	126	104	96	115
45°	142	112	74	47	37	109
55°	96	66	27	18	17	85
65°	48	24	10	9	8	47
75°	6	4	3	3	3	9
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°	261.3	261.3	261.3	261.3	261.3
2.5°	261.0	261.0	259.0	261.3	261.3
5°	260.0	259.3	255.7	256.0	255.7
7.5°	258.0	256.6	250.3	248.7	247.3
10°	255.0	252.3	243.0	239.0	236.7
12.5°	251.7	247.0	234.4	228.8	225.1
15°	246.7	240.0	225.1	216.5	212.8
17.5°	241.4	231.7	214.1	203.9	199.2
20°	234.7	223.4	203.2	190.6	185.9
22.5°	227.4	214.1	190.6	176.6	170.3
25°	220.1	203.5	178.6	162.0	155.7
27.5°	211.8	192.9	165.0	147.7	140.8
30°	202.5	182.3	152.4	134.5	125.5
32.5°	193.2	171.3	139.1	119.5	110.6
35°	183.6	159.0	126.2	103.9	96.3
37.5°	173.3	147.4	112.9	89.6	80.7
40°	163.4	135.8	99.6	75.0	66.7
42.5°	152.7	124.2	86.3	60.8	51.5
45°	141.8	111.6	73.7	46.8	37.2
47.5°	130.5	100.3	61.1	34.5	27.9
50°	119.2	88.3	49.1	25.6	23.2
52.5°	107.6	76.7	37.2	21.2	20.3
55°	96.0	65.7	26.9	18.3	17.3
57.5°	84.0	53.8	20.3	15.6	14.6
60°	71.1	43.2	15.9	12.9	12.0
62.5°	59.1	33.9	12.9	10.6	10.0
65°	47.5	24.2	10.3	8.6	8.0
67.5°	35.5	16.3	8.0	6.6	6.6
70°	24.2	10.6	6.0	5.3	5.3
72.5°	14.6	6.3	4.3	4.3	4.3
75°	6.0	4.0	3.3	3.3	3.3
77.5°	2.0	2.3	2.3	2.7	2.7
80°	1.3	1.3	1.7	2.0	2.0
82.5°	0.7	1.0	1.0	1.3	1.3
85°	0.3	0.3	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.3	0.3
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	11.37	12.70	11.74	13.02	13.33	2.02	3.35	2.39	3.67	3.98
	3H	12.08	13.25	12.46	13.58	13.95	2.80	3.97	3.18	4.30	4.67
	4H	12.09	13.19	12.50	13.54	13.92	3.04	4.14	3.45	4.49	4.87
	6H	12.02	13.03	12.44	13.40	13.79	3.23	4.23	3.64	4.60	5.00
	8H	11.98	12.93	12.41	13.33	13.73	3.27	4.22	3.70	4.61	5.02
	12H	11.94	12.85	12.37	13.23	13.66	3.28	4.19	3.71	4.57	5.00
4H	2H	11.20	12.30	11.60	12.65	13.03	2.51	3.61	2.91	3.96	4.34
	3H	11.95	12.84	12.36	13.24	13.65	3.41	4.30	3.82	4.71	5.11
	4H	11.97	12.76	12.40	13.18	13.62	3.72	4.52	4.16	4.94	5.38
	6H	11.90	12.59	12.37	13.03	13.50	3.99	4.67	4.45	5.12	5.59
	8H	11.85	12.49	12.32	12.94	13.41	4.05	4.69	4.52	5.14	5.61
	12H	11.81	12.37	12.30	12.85	13.33	4.08	4.64	4.57	5.13	5.60
8H	4H	11.85	12.49	12.32	12.93	13.40	3.83	4.47	4.30	4.92	5.39
	6H	11.77	12.29	12.28	12.79	13.27	4.16	4.68	4.66	5.18	5.66
	8H	11.72	12.18	12.24	12.70	13.19	4.26	4.73	4.79	5.24	5.74
	12H	11.68	12.09	12.19	12.58	13.16	4.33	4.74	4.84	5.24	5.81
12H	4H	11.80	12.37	12.29	12.85	13.32	3.81	4.37	4.29	4.85	5.33
	6H	11.71	12.18	12.24	12.70	13.19	4.13	4.60	4.66	5.12	5.61
	8H	11.68	12.09	12.20	12.59	13.16	4.27	4.68	4.78	5.18	5.75