

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: P1062040

Luminaire Tested: S125RDRP-H375D927-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1062040
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-H375D927-X4F0-XX-UDD-SVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

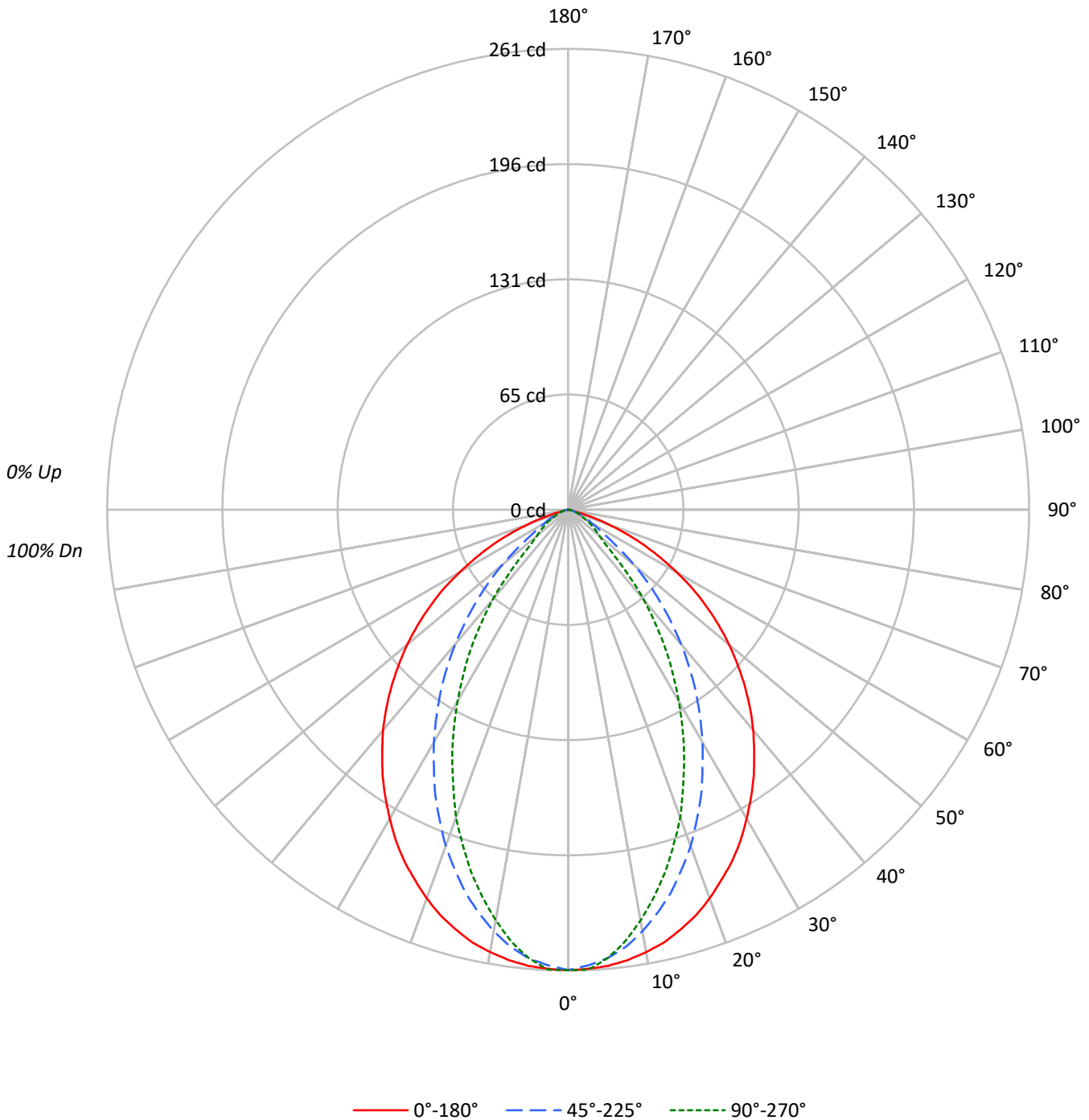
Lumens per Lamp: N/A
Luminaire Lumens: 377.0 lumens
Efficiency: N/A
Efficacy: 32.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): 120
Input Current (Ain): 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°	1795	1795	1795
5°	1792	1762	1762
10°	1779	1695	1651
15°	1754	1601	1513
20°	1716	1485	1359
25°	1668	1354	1180
30°	1606	1208	995
35°	1540	1058	807
40°	1465	893	599
45°	1377	716	361
50°	1274	525	249
55°	1149	322	206
60°	976	219	164
65°	772	168	129
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: 1377 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.1	6.4
10°-20°	63.7	16.9
20°-30°	83.7	22.2
30°-40°	82.3	21.8
40°-50°	62.2	16.5
50°-60°	37.7	10.0
60°-70°	17.8	4.7
70°-80°	4.6	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°	171.5	45.5
0°-40°	253.8	67.3
0°-60°	353.8	93.9
0°-90°	377.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	377.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	261	261	261	261	261	
5°	259	259	255	255	255	25
15°	246	240	225	216	212	69
25°	220	203	178	162	155	101
35°	183	159	126	104	96	114
45°	141	111	74	47	37	109
55°	96	66	27	18	17	85
65°	47	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°	260.7	260.7	260.7	260.7	260.7
2.5°	260.3	260.3	258.3	260.7	260.7
5°	259.3	258.7	255.0	255.4	255.0
7.5°	257.3	256.0	249.7	248.1	246.7
10°	254.4	251.7	242.4	238.5	236.1
12.5°	251.0	246.4	233.8	228.2	224.6
15°	246.1	239.5	224.6	215.9	212.3
17.5°	240.8	231.2	213.6	203.4	198.7
20°	234.2	222.9	202.7	190.1	185.5
22.5°	226.9	213.6	190.1	176.2	169.9
25°	219.6	203.0	178.2	161.6	155.3
27.5°	211.3	192.4	164.6	147.4	140.4
30°	202.0	181.8	152.0	134.1	125.2
32.5°	192.8	170.9	138.8	119.2	110.3
35°	183.2	158.6	125.9	103.7	96.0
37.5°	172.9	147.1	112.6	89.4	80.5
40°	163.0	135.5	99.4	74.9	66.6
42.5°	152.4	123.9	86.1	60.6	51.3
45°	141.4	111.3	73.5	46.7	37.1
47.5°	130.2	100.0	60.9	34.4	27.8
50°	118.9	88.1	49.0	25.5	23.2
52.5°	107.3	76.5	37.1	21.2	20.2
55°	95.7	65.6	26.8	18.2	17.2
57.5°	83.8	53.7	20.2	15.6	14.6
60°	70.9	43.1	15.9	12.9	11.9
62.5°	59.0	33.8	12.9	10.6	9.9
65°	47.4	24.2	10.3	8.6	7.9
67.5°	35.4	16.2	7.9	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	2.6	2.6
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	11.73	13.01	13.32	2.03	3.36	2.40	3.67	3.99
	3H	12.07	13.25	12.45	13.58	13.94	2.80	3.98	3.18	4.31	4.68
	4H	12.09	13.18	12.49	13.53	13.92	3.05	4.15	3.45	4.50	4.88
	6H	12.02	13.02	12.43	13.39	13.79	3.22	4.23	3.64	4.60	4.99
	8H	11.98	12.93	12.41	13.32	13.72	3.27	4.22	3.70	4.61	5.02
	12H	11.94	12.84	12.37	13.23	13.66	3.28	4.19	3.71	4.57	5.00
4H	2H	11.20	12.29	11.60	12.64	13.03	2.52	3.61	2.92	3.96	4.35
	3H	11.94	12.83	12.35	13.24	13.64	3.42	4.31	3.83	4.72	5.12
	4H	11.96	12.75	12.40	13.17	13.62	3.73	4.52	4.16	4.94	5.39
	6H	11.90	12.58	12.36	13.03	13.50	3.98	4.67	4.45	5.11	5.58
	8H	11.85	12.49	12.32	12.93	13.40	4.05	4.68	4.52	5.13	5.60
	12H	11.80	12.37	12.29	12.85	13.32	4.07	4.64	4.56	5.12	5.59
8H	4H	11.84	12.48	12.31	12.93	13.40	3.84	4.48	4.31	4.93	5.40
	6H	11.77	12.29	12.27	12.78	13.26	4.15	4.67	4.66	5.17	5.65
	8H	11.71	12.18	12.24	12.69	13.19	4.26	4.72	4.78	5.24	5.73
	12H	11.67	12.08	12.19	12.58	13.15	4.32	4.73	4.84	5.23	5.80
12H	4H	11.80	12.36	12.29	12.84	13.32	3.81	4.37	4.30	4.86	5.33
	6H	11.71	12.18	12.23	12.69	13.18	4.13	4.59	4.65	5.11	5.60
	8H	11.67	12.09	12.19	12.58	13.15	4.26	4.67	4.78	5.17	5.74