

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1062049

Luminaire Tested: S125RDR-H375D930-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1062049  
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: S125RDR-H375D930-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: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

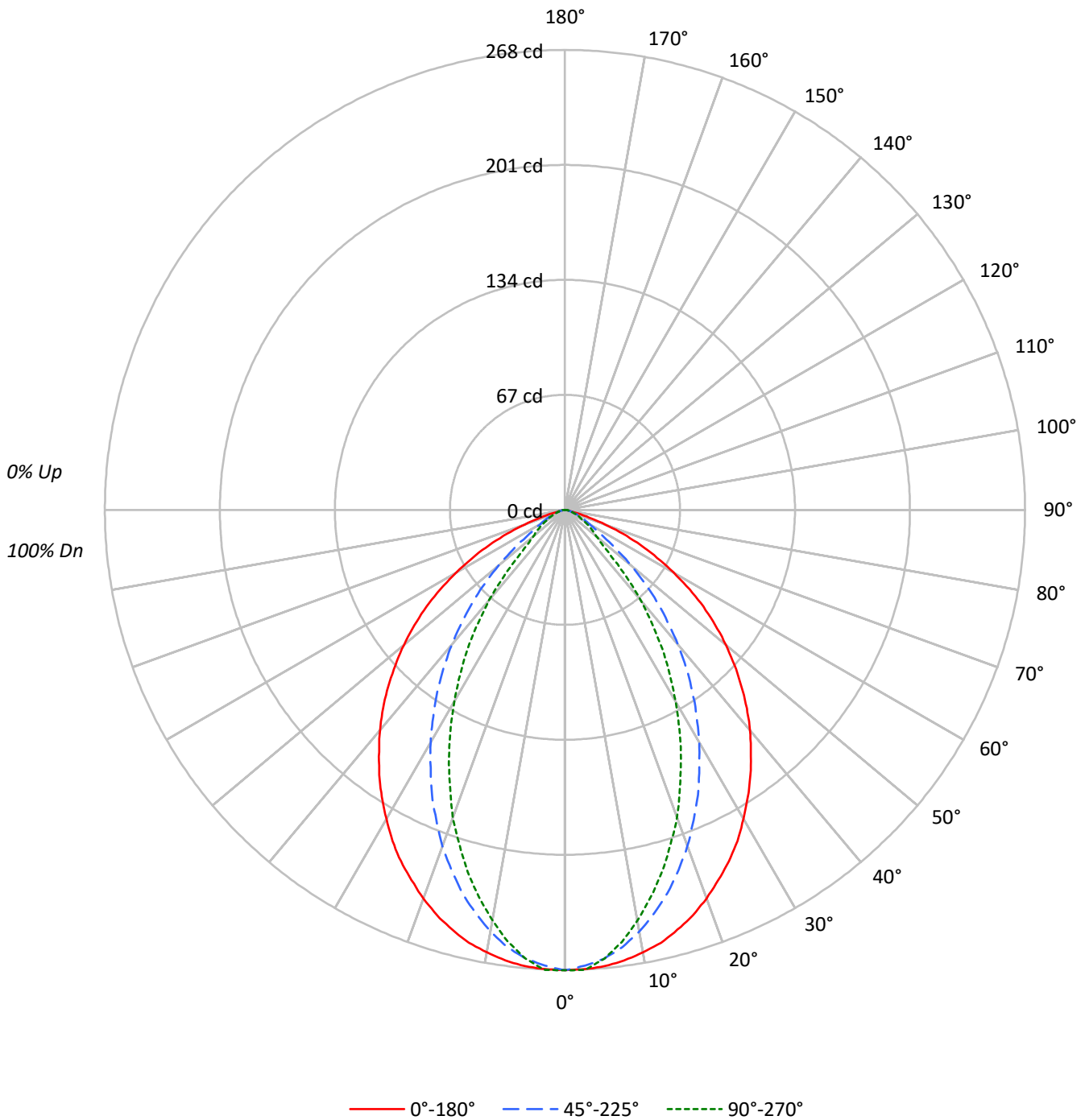
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 387.9 lumens  
Efficiency: N/A  
Efficacy: 33.2 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	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°	1847	1847	1847
5°	1845	1814	1814
10°	1830	1744	1699
15°	1806	1647	1557
20°	1766	1528	1399
25°	1717	1393	1215
30°	1653	1244	1024
35°	1584	1088	831
40°	1507	919	616
45°	1417	737	372
50°	1311	540	256
55°	1182	331	212
60°	1004	226	169
65°	793	173	134
70°	501	123	111
75°	162	90	90
80°	56	67	79
85°	24	55	55

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1417 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.8	6.4
10°-20°	65.5	16.9
20°-30°	86.2	22.2
30°-40°	84.7	21.8
40°-50°	64.1	16.5
50°-60°	38.8	10.0
60°-70°	18.3	4.7
70°-80°	4.8	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°	176.5	45.5
0°-40°	261.2	67.3
0°-60°	364.1	93.9
0°-90°	387.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	387.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	268	268	268	268	268	
5°	267	266	262	263	262	25
15°	253	246	231	222	218	71
25°	226	209	183	166	160	104
35°	188	163	130	107	99	118
45°	146	114	76	48	38	112
55°	98	68	28	19	18	88
65°	49	25	11	9	8	48
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°	268.3	268.3	268.3	268.3	268.3
2.5°	267.9	267.9	265.9	268.3	268.3
5°	266.9	266.2	262.5	262.8	262.5
7.5°	264.9	263.5	257.0	255.3	253.9
10°	261.8	259.1	249.5	245.4	243.0
12.5°	258.4	253.6	240.7	234.9	231.1
15°	253.3	246.4	231.1	222.2	218.5
17.5°	247.8	237.9	219.9	209.3	204.5
20°	241.0	229.4	208.6	195.7	190.9
22.5°	233.5	219.9	195.7	181.3	174.9
25°	226.0	208.9	183.4	166.3	159.9
27.5°	217.5	198.0	169.4	151.7	144.5
30°	207.9	187.1	156.5	138.1	128.8
32.5°	198.4	175.9	142.8	122.7	113.5
35°	188.5	163.3	129.5	106.7	98.9
37.5°	177.9	151.3	115.9	92.0	82.8
40°	167.7	139.4	102.3	77.0	68.5
42.5°	156.8	127.5	88.6	62.4	52.8
45°	145.5	114.5	75.7	48.1	38.2
47.5°	134.0	102.9	62.7	35.4	28.6
50°	122.4	90.7	50.4	26.2	23.9
52.5°	110.4	78.7	38.2	21.8	20.8
55°	98.5	67.5	27.6	18.7	17.7
57.5°	86.2	55.2	20.8	16.0	15.0
60°	72.9	44.3	16.4	13.3	12.3
62.5°	60.7	34.8	13.3	10.9	10.2
65°	48.7	24.9	10.6	8.9	8.2
67.5°	36.5	16.7	8.2	6.8	6.8
70°	24.9	10.9	6.1	5.5	5.5
72.5°	15.0	6.5	4.4	4.4	4.4
75°	6.1	4.1	3.4	3.4	3.4
77.5°	2.0	2.4	2.4	2.7	2.7
80°	1.4	1.4	1.7	2.0	2.0
82.5°	0.7	1.0	1.0	1.4	1.4
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	11.46	12.79	11.82	13.10	13.42	2.11	3.44	2.48	3.75	4.07
	3H	12.17	13.34	12.55	13.67	14.04	2.90	4.07	3.27	4.40	4.77
	4H	12.18	13.28	12.58	13.63	14.01	3.14	4.24	3.54	4.59	4.97
	6H	12.11	13.12	12.53	13.49	13.88	3.31	4.32	3.73	4.69	5.08
	8H	12.07	13.02	12.50	13.41	13.82	3.36	4.31	3.79	4.70	5.11
	12H	12.03	12.94	12.46	13.32	13.75	3.37	4.28	3.80	4.66	5.09
4H	2H	11.29	12.39	11.69	12.74	13.12	2.60	3.70	3.00	4.05	4.43
	3H	12.04	12.93	12.45	13.33	13.74	3.51	4.40	3.92	4.81	5.21
	4H	12.05	12.85	12.49	13.27	13.71	3.82	4.62	4.26	5.04	5.48
	6H	11.99	12.68	12.46	13.12	13.59	4.07	4.76	4.54	5.20	5.67
	8H	11.94	12.58	12.41	13.03	13.50	4.14	4.78	4.61	5.23	5.70
	12H	11.90	12.46	12.38	12.94	13.42	4.17	4.73	4.66	5.22	5.69
8H	4H	11.94	12.58	12.41	13.02	13.49	3.93	4.57	4.40	5.02	5.49
	6H	11.86	12.38	12.37	12.88	13.36	4.24	4.76	4.74	5.26	5.74
	8H	11.81	12.27	12.33	12.79	13.28	4.35	4.82	4.87	5.33	5.83
	12H	11.77	12.18	12.28	12.67	13.25	4.42	4.83	4.94	5.33	5.90
12H	4H	11.89	12.46	12.38	12.94	13.41	3.91	4.47	4.39	4.95	5.43
	6H	11.80	12.27	12.33	12.79	13.28	4.21	4.68	4.74	5.19	5.69
	8H	11.77	12.18	12.29	12.68	13.25	4.36	4.77	4.87	5.26	5.84