

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: P1061664

Luminaire Tested: S125RDRP-S375D940-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S375D940-X4F0-XX-UDD-SVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

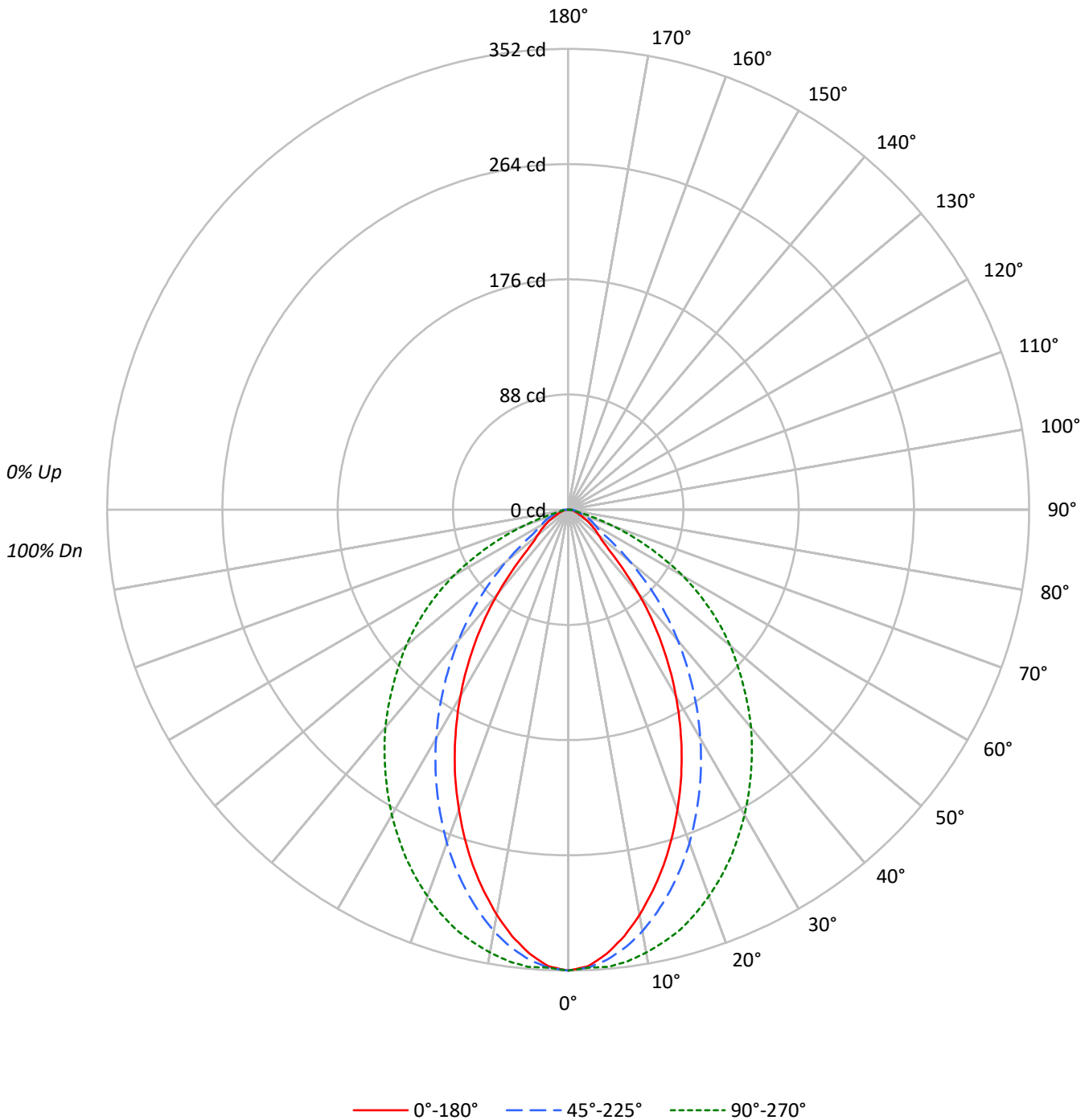
Lumens per Lamp: N/A
Luminaire Lumens: 509.8 lumens
Efficiency: N/A
Efficacy: 40.8 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2424	2424	2424
5°	2353	2384	2422
10°	2197	2286	2401
15°	2005	2146	2365
20°	1787	1984	2302
25°	1557	1801	2228
30°	1309	1603	2141
35°	1041	1393	2047
40°	750	1170	1953
45°	444	929	1839
50°	329	661	1731
55°	278	408	1585
60°	227	329	1396
65°	176	305	1103
70°	151	264	739
75°	138	229	298
80°	147	238	206
85°	174	355	237

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1839 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.4	6.4
10°-20°	85.2	16.7
20°-30°	111.4	21.8
30°-40°	108.5	21.3
40°-50°	81.4	16.0
50°-60°	51.0	10.0
60°-70°	26.6	5.2
70°-80°	9.6	1.9
80°-90°	3.8	0.7
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°	229.0	44.9
0°-40°	337.5	66.2
0°-60°	469.9	92.2
0°-90°	509.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	509.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	352	352	352	352	352	
5°	340	345	345	348	350	32
15°	281	290	301	320	332	78
25°	205	216	237	269	293	94
35°	124	137	166	210	244	77
45°	46	59	95	147	189	38
55°	23	24	34	89	132	21
65°	11	12	19	36	68	11
75°	5	7	9	9	11	6
85°	2	4	4	4	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	352.0	352.0	352.0	352.0	352.0
2.5°	349.0	352.3	350.1	350.1	350.1
5°	340.4	344.9	344.9	347.5	350.5
7.5°	328.4	333.6	337.0	343.4	347.9
10°	314.2	320.6	326.9	337.4	343.4
12.5°	298.1	305.6	314.6	329.2	338.1
15°	281.3	289.5	301.1	319.8	331.8
17.5°	263.0	272.7	286.5	309.0	323.5
20°	243.9	253.6	270.8	296.2	314.2
22.5°	224.8	235.3	254.0	282.8	304.1
25°	205.0	216.2	237.1	269.3	293.3
27.5°	184.8	196.4	219.6	255.5	281.3
30°	164.6	176.5	201.6	240.5	269.3
32.5°	144.4	157.1	183.7	225.2	256.6
35°	123.8	136.9	165.7	209.8	243.5
37.5°	104.0	117.1	147.7	194.1	230.4
40°	83.4	97.6	130.2	178.4	217.3
42.5°	63.2	77.8	112.6	162.7	203.1
45°	45.6	59.1	95.4	147.4	188.9
47.5°	35.2	42.6	77.8	131.7	175.1
50°	30.7	32.9	61.7	117.1	161.6
52.5°	26.6	28.1	46.4	103.6	147.0
55°	23.2	24.3	34.0	89.0	132.0
57.5°	19.5	20.9	26.9	74.8	116.7
60°	16.5	17.2	23.9	61.7	101.4
62.5°	13.5	14.2	21.3	48.6	84.2
65°	10.8	11.6	18.7	35.9	67.7
67.5°	9.0	9.4	15.7	25.4	52.0
70°	7.5	7.9	13.1	17.6	36.7
72.5°	6.4	7.5	10.5	12.7	23.2
75°	5.2	7.1	8.6	9.0	11.2
77.5°	4.5	6.7	7.1	7.1	6.4
80°	3.7	5.6	6.0	5.6	5.2
82.5°	3.0	4.5	4.9	4.9	4.1
85°	2.2	3.7	4.5	4.1	3.0
87.5°	1.5	3.4	3.7	3.4	2.2
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	2.98	4.34	3.35	4.65	4.96	12.60	13.96	12.97	14.27	14.58
	3H	3.85	5.05	4.23	5.38	5.75	13.45	14.65	13.83	14.98	15.34
	4H	4.27	5.39	4.68	5.74	6.13	13.52	14.64	13.92	14.99	15.37
	6H	4.70	5.73	5.11	6.10	6.49	13.50	14.53	13.92	14.90	15.30
	8H	4.88	5.85	5.31	6.24	6.65	13.49	14.47	13.92	14.86	15.26
	12H	5.04	5.97	5.47	6.35	6.78	13.48	14.41	13.91	14.79	15.22
4H	2H	3.95	5.07	4.35	5.42	5.80	12.47	13.59	12.87	13.94	14.32
	3H	5.01	5.93	5.42	6.33	6.73	13.38	14.30	13.79	14.70	15.10
	4H	5.57	6.39	6.01	6.81	7.25	13.48	14.30	13.92	14.72	15.16
	6H	6.17	6.87	6.63	7.32	7.79	13.51	14.22	13.97	14.66	15.13
	8H	6.41	7.07	6.87	7.51	7.98	13.51	14.17	13.98	14.62	15.09
	12H	6.63	7.21	7.11	7.69	8.17	13.52	14.11	14.01	14.59	15.06
8H	4H	6.04	6.70	6.51	7.15	7.62	13.41	14.07	13.87	14.51	14.98
	6H	6.85	7.39	7.35	7.89	8.37	13.46	14.00	13.96	14.50	14.98
	8H	7.23	7.72	7.75	8.23	8.73	13.49	13.98	14.01	14.49	14.99
	12H	7.62	8.05	8.13	8.54	9.11	13.56	13.99	14.07	14.48	15.05
12H	4H	6.09	6.68	6.58	7.16	7.64	13.37	13.96	13.86	14.44	14.91
	6H	6.98	7.46	7.50	7.98	8.47	13.43	13.91	13.95	14.43	14.92
	8H	7.47	7.90	7.98	8.39	8.96	13.50	13.93	14.01	14.42	14.99