

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: P1059287

Luminaire Tested: S123RDRP-S560D927-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059287
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-68)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDRP-S560D927-X4F0-XX-UDD-SVL-S
Description: DEFINE 3 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

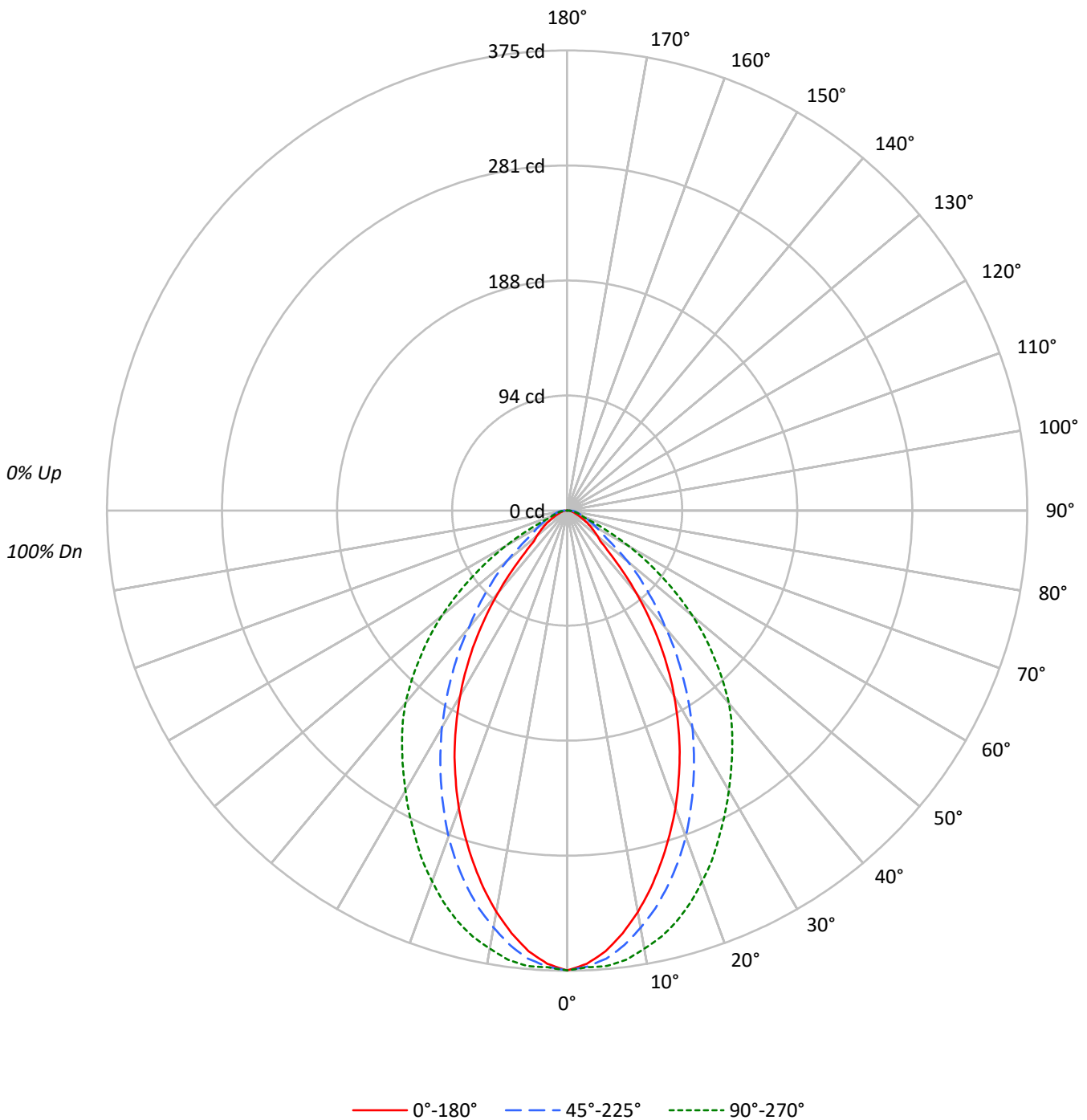
Lumens per Lamp: N/A
Luminaire Lumens: 501.8 lumens
Efficiency: N/A
Efficacy: 25.6 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.07 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79				79
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71				71
4	91	81	74	69	88	80	73	68	77	72	67	75	70	66	73	69	66	64				64
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58				58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	54	63	58	54	52				52
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	49	48				48
8	70	58	51	46	69	58	51	46	57	50	46	56	50	46	54	49	45	44				44
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40				40
10	62	51	44	39	61	50	44	39	50	43	39	49	43	39	48	43	39	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4400	4400	4400
5°	4248	4320	4391
10°	3959	4115	4323
15°	3603	3850	4209
20°	3226	3534	4019
25°	2813	3154	3799
30°	2366	2766	3574
35°	1882	2344	3363
40°	1341	1911	3144
45°	799	1534	2816
50°	590	1169	2439
55°	493	794	1937
60°	399	655	1362
65°	320	561	731
70°	264	488	450
75°	250	472	422
80°	257	521	406
85°	364	741	512

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2816 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.4	6.9
10°-20°	89.4	17.8
20°-30°	114.0	22.7
30°-40°	107.3	21.4
40°-50°	77.1	15.4
50°-60°	44.2	8.8
60°-70°	20.2	4.0
70°-80°	10.2	2.0
80°-90°	5.0	1.0
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°	237.9	47.4
0°-40°	345.1	68.8
0°-60°	466.4	93.0
0°-90°	501.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	501.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	375	375	375	375	375	
5°	360	368	366	369	372	33
15°	296	307	317	334	346	83
25°	217	227	243	270	293	99
35°	131	141	164	201	235	81
45°	48	58	92	136	170	40
55°	24	25	39	72	95	22
65°	12	16	20	22	26	12
75°	6	11	10	9	9	6
85°	3	6	6	5	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	374.7	374.7	374.7	374.7	374.7
2.5°	369.7	375.2	371.9	371.9	372.5
5°	360.4	367.6	366.5	369.2	372.5
7.5°	347.3	355.0	357.2	363.7	369.2
10°	332.0	340.7	345.1	355.5	362.6
12.5°	315.0	324.9	332.0	345.1	355.5
15°	296.4	306.8	316.7	333.6	346.2
17.5°	277.3	287.7	300.3	320.0	334.7
20°	258.2	268.6	282.8	303.6	321.6
22.5°	237.4	247.8	263.1	286.6	308.5
25°	217.1	227.0	243.4	269.6	293.2
27.5°	195.8	205.7	223.7	252.1	278.4
30°	174.5	184.3	204.0	234.6	263.6
32.5°	153.1	162.4	183.8	217.7	248.9
35°	131.3	140.6	163.5	200.7	234.6
37.5°	108.8	118.1	144.9	185.4	220.4
40°	87.5	97.9	124.7	170.1	205.1
42.5°	66.7	77.7	108.3	153.7	187.6
45°	48.1	58.5	92.4	136.2	169.6
47.5°	36.6	42.1	78.2	118.7	152.1
50°	32.3	32.8	64.0	102.8	133.5
52.5°	27.9	28.4	49.8	87.5	113.8
55°	24.1	24.6	38.8	71.7	94.6
57.5°	20.2	21.3	31.7	56.9	76.0
60°	17.0	19.1	27.9	43.2	58.0
62.5°	13.7	17.5	24.1	31.7	41.6
65°	11.5	15.9	20.2	22.4	26.3
67.5°	9.3	14.8	17.0	15.9	15.9
70°	7.7	13.1	14.2	13.1	13.1
72.5°	6.6	12.6	12.0	10.9	10.9
75°	5.5	10.9	10.4	9.3	9.3
77.5°	4.9	9.3	8.8	8.2	7.7
80°	3.8	7.7	7.7	7.1	6.0
82.5°	3.3	6.6	6.6	6.0	4.9
85°	2.7	5.5	5.5	4.9	3.8
87.5°	2.2	4.9	4.9	4.4	2.7
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	5.12	6.44	5.49	6.75	7.07	12.36	13.67	12.72	13.99	14.30
	3H	6.53	7.70	6.91	8.03	8.39	12.59	13.76	12.97	14.09	14.46
	4H	7.09	8.18	7.49	8.53	8.92	12.70	13.79	13.10	14.14	14.52
	6H	7.55	8.55	7.96	8.92	9.32	12.81	13.81	13.22	14.18	14.57
	8H	7.74	8.69	8.17	9.08	9.48	12.85	13.80	13.28	14.19	14.60
	12H	7.93	8.83	8.36	9.22	9.65	12.90	13.81	13.34	14.19	14.62
4H	2H	6.20	7.28	6.60	7.64	8.02	12.32	13.41	12.72	13.76	14.14
	3H	7.89	8.78	8.30	9.19	9.59	12.68	13.58	13.10	13.98	14.38
	4H	8.72	9.52	9.16	9.94	10.38	12.87	13.67	13.30	14.09	14.53
	6H	9.38	10.07	9.84	10.52	10.99	13.09	13.78	13.55	14.23	14.69
	8H	9.64	10.29	10.11	10.73	11.20	13.19	13.84	13.66	14.28	14.75
	12H	9.89	10.47	10.38	10.95	11.42	13.30	13.88	13.79	14.36	14.83
8H	4H	9.16	9.81	9.63	10.25	10.72	12.91	13.56	13.38	14.01	14.48
	6H	10.12	10.65	10.62	11.14	11.62	13.25	13.78	13.75	14.27	14.75
	8H	10.59	11.06	11.11	11.58	12.07	13.43	13.91	13.96	14.43	14.92
	12H	11.07	11.49	11.58	11.98	12.55	13.66	14.09	14.18	14.58	15.15
12H	4H	9.22	9.79	9.71	10.27	10.75	12.91	13.48	13.39	13.96	14.43
	6H	10.27	10.74	10.79	11.26	11.75	13.27	13.75	13.79	14.27	14.76
	8H	10.86	11.29	11.38	11.78	12.35	13.53	13.95	14.05	14.45	15.02