

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: P1059125

Luminaire Tested: S123RDRP-S1165D927-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059125
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-S1165D927-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

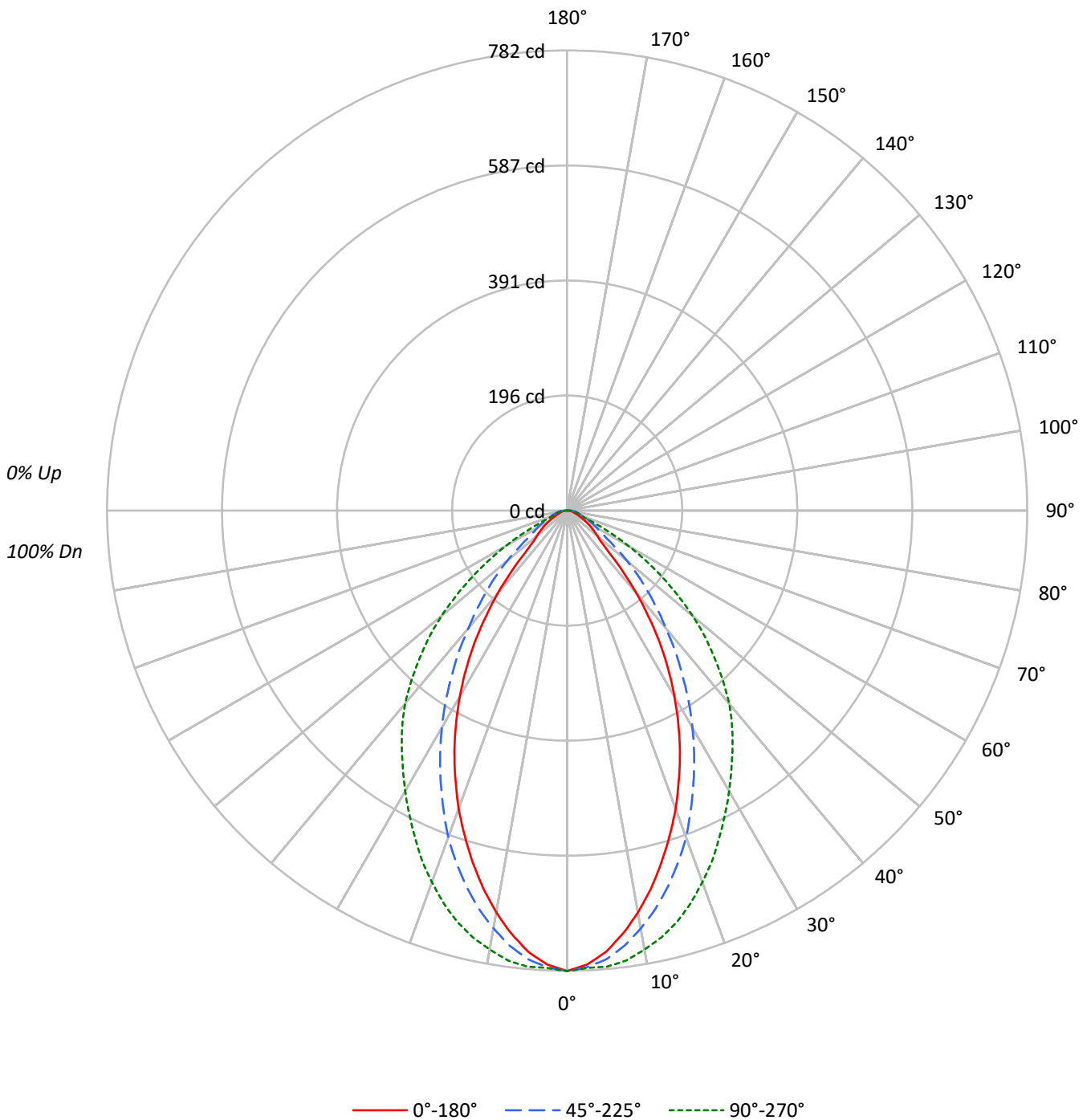
Lumens per Lamp: N/A
Luminaire Lumens: 1047.9 lumens
Efficiency: N/A
Efficacy: 25.1 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.07 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73
4	91	81	74	69	88	80	73	68	77	72	67	75	70	66	73	69	66
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59
6	79	68	61	56	78	67	60	55	66	60	55	64	59	54	63	58	54
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	49
8	70	58	51	46	69	58	51	46	57	50	46	56	50	46	54	49	45
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42
10	62	51	44	39	61	50	44	39	50	43	39	49	43	39	48	43	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9188	9188	9188
5°	8873	9021	9169
10°	8268	8595	9030
15°	7526	8040	8790
20°	6738	7380	8394
25°	5876	6586	7933
30°	4941	5777	7466
35°	3929	4895	7024
40°	2802	3992	6567
45°	1669	3205	5880
50°	1231	2441	5091
55°	1030	1660	4045
60°	831	1369	2844
65°	667	1175	1523
70°	549	1020	941
75°	517	985	880
80°	541	1082	852
85°	768	1536	1078

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5880 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.9	6.9
10°-20°	186.7	17.8
20°-30°	238.2	22.7
30°-40°	224.1	21.4
40°-50°	161.0	15.4
50°-60°	92.3	8.8
60°-70°	42.2	4.0
70°-80°	21.2	2.0
80°-90°	10.3	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°	496.8	47.4
0°-40°	720.8	68.8
0°-60°	974.1	93.0
0°-90°	1047.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1047.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	782	782	782	782	782	
5°	753	768	765	771	778	70
15°	619	641	661	697	723	173
25°	454	474	508	563	612	207
35°	274	294	342	419	490	170
45°	100	122	193	284	354	84
55°	50	51	81	150	198	45
65°	24	33	42	47	55	24
75°	11	23	22	19	19	13
85°	6	11	11	10	8	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	782.5	782.5	782.5	782.5	782.5
2.5°	772.2	783.6	776.7	776.7	777.9
5°	752.8	767.6	765.3	771.0	777.9
7.5°	725.3	741.3	745.9	759.6	771.0
10°	693.4	711.6	720.8	742.5	757.3
12.5°	657.9	678.5	693.4	720.8	742.5
15°	619.1	640.8	661.4	696.8	723.1
17.5°	579.1	600.8	627.1	668.2	699.1
20°	539.2	560.9	590.6	634.0	671.7
22.5°	495.7	517.4	549.4	598.6	644.2
25°	453.5	474.0	508.3	563.1	612.3
27.5°	408.9	429.5	467.2	526.6	581.4
30°	364.4	384.9	426.1	490.0	550.6
32.5°	319.8	339.3	383.8	454.6	519.7
35°	274.1	293.6	341.5	419.2	490.0
37.5°	227.3	246.7	302.7	387.2	460.3
40°	182.8	204.5	260.4	355.2	428.4
42.5°	139.4	162.2	226.2	321.0	391.8
45°	100.5	122.2	193.0	284.4	354.1
47.5°	76.5	88.0	163.3	247.9	317.6
50°	67.4	68.5	133.6	214.7	278.7
52.5°	58.3	59.4	103.9	182.8	237.6
55°	50.3	51.4	81.1	149.6	197.6
57.5°	42.3	44.5	66.3	118.8	158.8
60°	35.4	40.0	58.3	90.2	121.1
62.5°	28.6	36.6	50.3	66.3	86.8
65°	24.0	33.1	42.3	46.8	54.8
67.5°	19.4	30.8	35.4	33.1	33.1
70°	16.0	27.4	29.7	27.4	27.4
72.5°	13.7	26.3	25.1	22.8	22.8
75°	11.4	22.8	21.7	19.4	19.4
77.5°	10.3	19.4	18.3	17.1	16.0
80°	8.0	16.0	16.0	14.8	12.6
82.5°	6.9	13.7	13.7	12.6	10.3
85°	5.7	11.4	11.4	10.3	8.0
87.5°	4.6	10.3	10.3	9.1	5.7
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	7.69	9.00	8.05	9.32	9.63	14.91	16.23	15.28	16.54	16.86
	3H	9.09	10.25	9.47	10.58	10.95	15.15	16.32	15.53	16.65	17.01
	4H	9.65	10.74	10.05	11.09	11.47	15.26	16.35	15.66	16.70	17.08
	6H	10.11	11.11	10.52	11.48	11.87	15.36	16.36	15.78	16.73	17.13
	8H	10.30	11.24	10.73	11.64	12.04	15.41	16.36	15.84	16.75	17.16
	12H	10.49	11.39	10.92	11.78	12.21	15.46	16.37	15.90	16.75	17.18
4H	2H	8.76	9.85	9.17	10.20	10.59	14.87	15.96	15.28	16.32	16.70
	3H	10.45	11.34	10.86	11.75	12.15	15.24	16.14	15.66	16.54	16.94
	4H	11.28	12.08	11.72	12.50	12.94	15.43	16.22	15.86	16.64	17.09
	6H	11.94	12.63	12.41	13.08	13.55	15.65	16.34	16.11	16.79	17.25
	8H	12.20	12.84	12.67	13.29	13.76	15.75	16.39	16.22	16.84	17.31
	12H	12.45	13.03	12.94	13.51	13.98	15.87	16.44	16.35	16.92	17.39
8H	4H	11.72	12.36	12.19	12.81	13.28	15.47	16.12	15.94	16.56	17.03
	6H	12.67	13.20	13.17	13.70	14.18	15.80	16.33	16.30	16.83	17.31
	8H	13.14	13.61	13.66	14.13	14.62	15.99	16.47	16.51	16.99	17.48
	12H	13.62	14.04	14.13	14.53	15.10	16.23	16.65	16.74	17.14	17.72
12H	4H	11.78	12.35	12.26	12.83	13.31	15.46	16.04	15.95	16.52	16.99
	6H	12.82	13.30	13.34	13.81	14.30	15.83	16.31	16.35	16.82	17.31
	8H	13.41	13.84	13.93	14.33	14.90	16.09	16.51	16.60	17.01	17.58