

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: P1059403

Luminaire Tested: S123RDRP-S775D950-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-29)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDRP-S775D950-X4F0-XX-UDD-SVL-B
Description: DEFINE 3 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

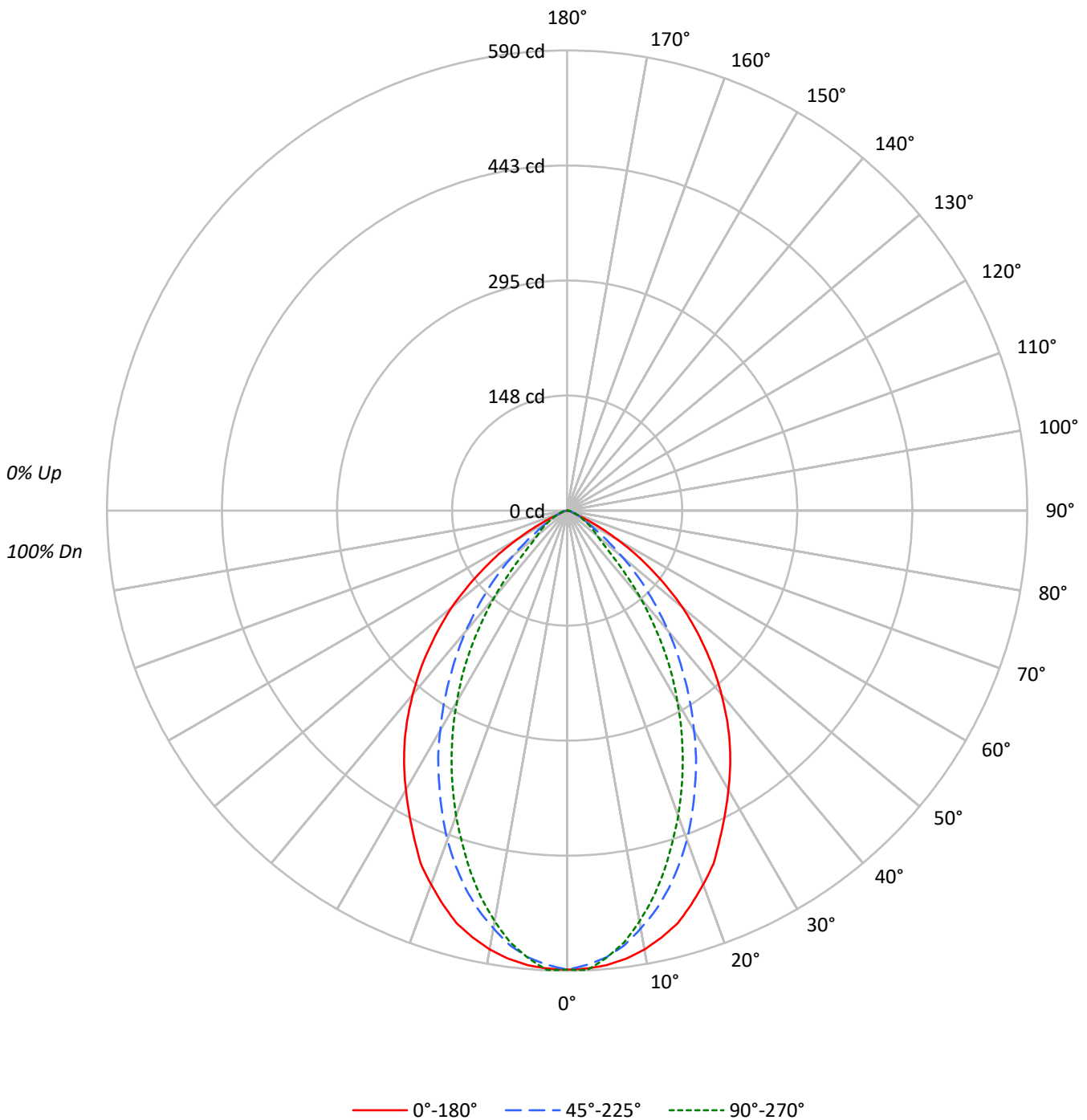
Lumens per Lamp: N/A
Luminaire Lumens: 759.9 lumens
Efficiency: N/A
Efficacy: 29.5 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 0.85 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
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	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	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	48	46
9	67	56	49	45	66	56	49	44	55	48	44	54	48	44	53	48	44	42
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6912	6912	6912
5°	6896	6777	6787
10°	6812	6486	6377
15°	6657	6103	5827
20°	6375	5613	5203
25°	6009	5028	4545
30°	5609	4411	3830
35°	5211	3761	3082
40°	4721	3101	2235
45°	4162	2406	1347
50°	3529	1681	915
55°	2686	1007	766
60°	1754	641	599
65°	734	481	481
70°	251	343	374
75°	209	250	290
80°	122	183	243
85°	121	121	243

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4162 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.4	7.2
10°-20°	142.3	18.7
20°-30°	182.4	24.0
30°-40°	171.2	22.5
40°-50°	119.4	15.7
50°-60°	61.8	8.1
60°-70°	21.1	2.8
70°-80°	6.0	0.8
80°-90°	1.3	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°	379.1	49.9
0°-40°	550.3	72.4
0°-60°	731.5	96.3
0°-90°	759.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	759.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	589	589	589	589	589	
5°	585	584	575	578	576	55
15°	548	534	502	486	479	153
25°	464	435	388	362	351	213
35°	364	319	262	229	215	226
45°	251	205	145	100	81	193
55°	131	98	49	38	37	118
65°	26	23	17	16	17	31
75°	5	5	6	6	6	5
85°	1	1	1	1	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	588.6	588.6	588.6	588.6	588.6
2.5°	587.7	588.6	583.1	588.6	589.5
5°	585.0	584.0	574.9	577.7	575.8
7.5°	579.5	576.8	562.2	558.5	558.5
10°	571.3	565.8	544.0	537.6	534.8
12.5°	560.4	553.1	524.8	513.0	508.4
15°	547.6	533.9	502.0	485.6	479.3
17.5°	529.4	511.2	476.5	457.4	447.4
20°	510.2	487.5	449.2	426.4	416.4
22.5°	490.2	462.9	419.1	394.5	383.6
25°	463.8	434.6	388.1	361.7	350.8
27.5°	438.3	407.3	358.1	328.0	317.1
30°	413.7	377.2	325.3	296.1	282.5
32.5°	389.1	348.1	294.3	262.4	249.7
35°	363.5	318.9	262.4	228.7	215.0
37.5°	336.2	290.7	232.3	195.9	179.5
40°	308.0	260.6	202.3	161.3	145.8
42.5°	279.7	233.3	172.2	130.3	112.1
45°	250.6	205.0	144.9	100.2	81.1
47.5°	221.4	176.8	118.4	72.9	61.0
50°	193.2	150.3	92.0	53.8	50.1
52.5°	162.2	124.8	69.2	44.6	43.7
55°	131.2	98.4	49.2	38.3	37.4
57.5°	103.9	76.5	35.5	31.9	31.0
60°	74.7	54.7	27.3	26.4	25.5
62.5°	49.2	37.4	21.9	21.0	21.0
65°	26.4	22.8	17.3	16.4	17.3
67.5°	10.9	12.8	12.8	13.7	13.7
70°	7.3	8.2	10.0	10.9	10.9
72.5°	5.5	6.4	7.3	8.2	8.2
75°	4.6	4.6	5.5	6.4	6.4
77.5°	2.7	3.6	3.6	4.6	5.5
80°	1.8	2.7	2.7	3.6	3.6
82.5°	0.9	1.8	1.8	2.7	2.7
85°	0.9	0.9	0.9	0.9	1.8
87.5°	0.0	0.0	0.0	0.0	0.9
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	13.05	14.31	13.41	14.62	14.93	6.56	7.82	6.92	8.13	8.44
	3H	13.00	14.11	13.38	14.44	14.81	7.33	8.44	7.71	8.77	9.14
	4H	12.95	13.98	13.35	14.33	14.71	7.54	8.56	7.94	8.92	9.30
	6H	12.88	13.82	13.29	14.19	14.59	7.68	8.62	8.09	8.99	9.39
	8H	12.83	13.73	13.27	14.12	14.52	7.71	8.60	8.14	9.00	9.40
	12H	12.79	13.64	13.22	14.03	14.46	7.73	8.58	8.16	8.96	9.39
4H	2H	12.89	13.92	13.30	14.27	14.66	6.81	7.84	7.22	8.19	8.58
	3H	12.88	13.71	13.29	14.12	14.52	7.72	8.55	8.13	8.96	9.36
	4H	12.83	13.57	13.26	13.99	14.44	7.99	8.74	8.43	9.16	9.60
	6H	12.77	13.41	13.24	13.86	14.32	8.21	8.85	8.68	9.30	9.76
	8H	12.72	13.31	13.19	13.76	14.23	8.27	8.86	8.74	9.31	9.78
	12H	12.67	13.20	13.16	13.68	14.16	8.30	8.83	8.79	9.31	9.79
8H	4H	12.72	13.31	13.19	13.76	14.23	7.98	8.57	8.45	9.02	9.49
	6H	12.65	13.14	13.16	13.63	14.12	8.25	8.73	8.75	9.23	9.71
	8H	12.60	13.04	13.12	13.55	14.05	8.35	8.78	8.87	9.30	9.79
	12H	12.56	12.95	13.08	13.44	14.02	8.42	8.80	8.94	9.30	9.87
12H	4H	12.67	13.19	13.16	13.68	14.15	7.94	8.46	8.43	8.95	9.42
	6H	12.59	13.03	13.12	13.55	14.04	8.21	8.64	8.73	9.16	9.65
	8H	12.56	12.95	13.08	13.44	14.02	8.34	8.72	8.86	9.22	9.79