

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: P1059395

Luminaire Tested: S123RDRP-S775D940-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059395
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-S775D940-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

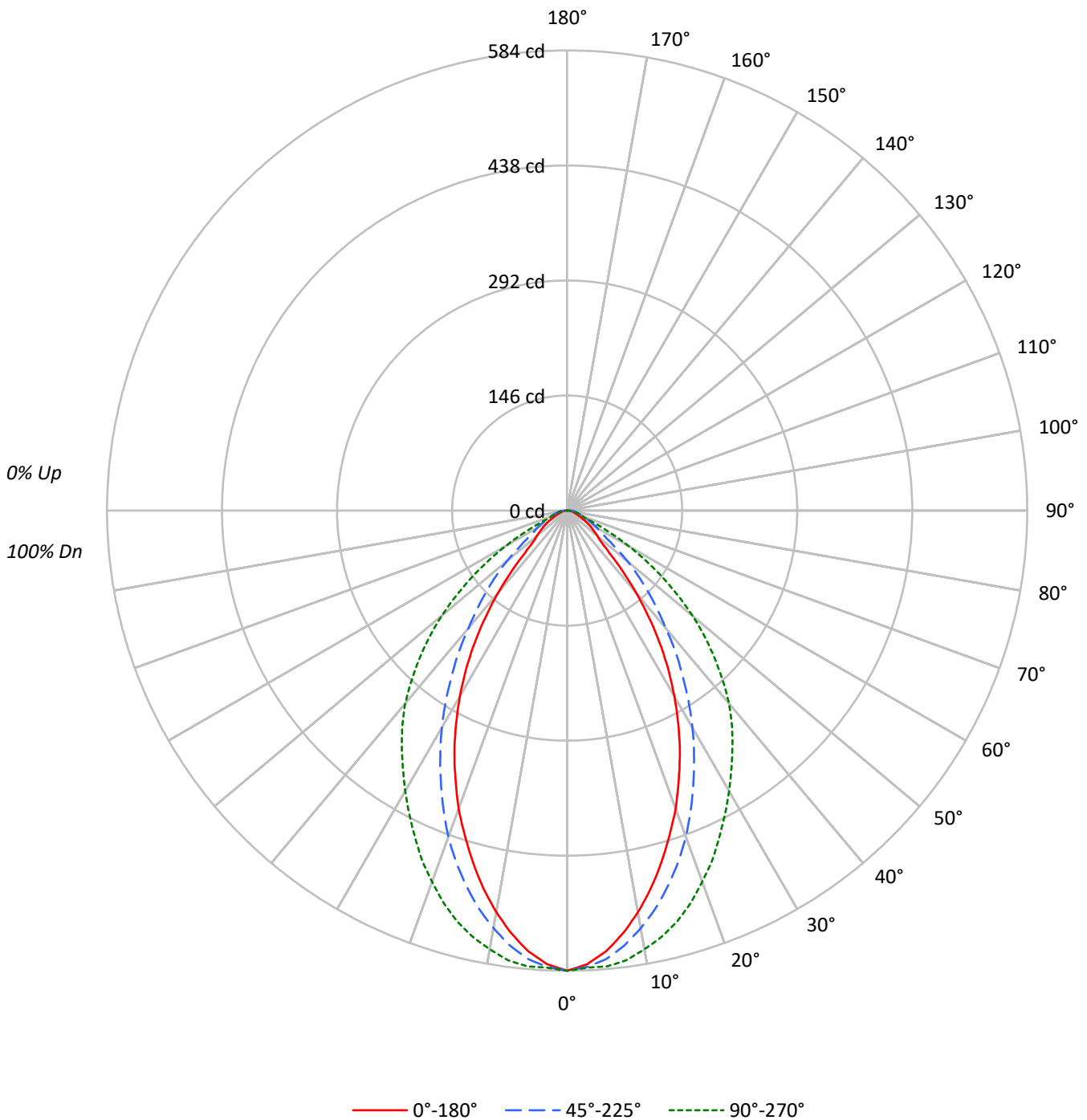
Lumens per Lamp: N/A
Luminaire Lumens: 782.1 lumens
Efficiency: N/A
Efficacy: 30.3 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.07 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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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CATALOG NUMBER: S123RDRP-S775D940-X4F0-XX-UDD-SVL-S

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6858	6858	6858
5°	6622	6733	6844
10°	6170	6415	6739
15°	5618	6001	6561
20°	5028	5508	6264
25°	4386	4916	5921
30°	3688	4312	5571
35°	2933	3654	5242
40°	2091	2980	4901
45°	1245	2393	4389
50°	919	1821	3800
55°	768	1239	3020
60°	620	1022	2123
65°	497	875	1136
70°	409	762	704
75°	386	735	658
80°	406	805	636
85°	579	1145	808

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4389 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.6	6.9
10°-20°	139.4	17.8
20°-30°	177.8	22.7
30°-40°	167.2	21.4
40°-50°	120.2	15.4
50°-60°	68.9	8.8
60°-70°	31.5	4.0
70°-80°	15.8	2.0
80°-90°	7.7	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°	370.8	47.4
0°-40°	538.0	68.8
0°-60°	727.1	93.0
0°-90°	782.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	782.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	584	584	584	584	584	
5°	562	573	571	576	581	52
15°	462	478	494	520	540	129
25°	338	354	379	420	457	155
35°	205	219	255	313	366	127
45°	75	91	144	212	264	63
55°	38	38	60	112	148	34
65°	18	25	32	35	41	18
75°	8	17	16	14	14	9
85°	4	8	8	8	6	4
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	584.0	584.0	584.0	584.0	584.0
2.5°	576.3	584.9	579.7	579.7	580.6
5°	561.8	572.9	571.2	575.5	580.6
7.5°	541.4	553.3	556.7	567.0	575.5
10°	517.5	531.1	538.0	554.2	565.2
12.5°	491.1	506.4	517.5	538.0	554.2
15°	462.1	478.3	493.6	520.1	539.7
17.5°	432.2	448.4	468.1	498.7	521.8
20°	402.4	418.6	440.8	473.2	501.3
22.5°	370.0	386.2	410.1	446.7	480.8
25°	338.5	353.8	379.4	420.3	457.0
27.5°	305.2	320.6	348.7	393.0	434.0
30°	272.0	287.3	318.0	365.7	410.9
32.5°	238.7	253.2	286.5	339.3	387.9
35°	204.6	219.1	254.9	312.9	365.7
37.5°	169.7	184.2	225.9	289.0	343.6
40°	136.4	152.6	194.4	265.1	319.7
42.5°	104.0	121.1	168.8	239.6	292.4
45°	75.0	91.2	144.1	212.3	264.3
47.5°	57.1	65.6	121.9	185.0	237.0
50°	50.3	51.2	99.7	160.3	208.0
52.5°	43.5	44.3	77.6	136.4	177.3
55°	37.5	38.4	60.5	111.7	147.5
57.5°	31.5	33.2	49.4	88.7	118.5
60°	26.4	29.8	43.5	67.4	90.4
62.5°	21.3	27.3	37.5	49.4	64.8
65°	17.9	24.7	31.5	35.0	40.9
67.5°	14.5	23.0	26.4	24.7	24.7
70°	11.9	20.5	22.2	20.5	20.5
72.5°	10.2	19.6	18.8	17.1	17.1
75°	8.5	17.1	16.2	14.5	14.5
77.5°	7.7	14.5	13.6	12.8	11.9
80°	6.0	11.9	11.9	11.1	9.4
82.5°	5.1	10.2	10.2	9.4	7.7
85°	4.3	8.5	8.5	7.7	6.0
87.5°	3.4	7.7	7.7	6.8	4.3
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	6.66	7.98	7.03	8.29	8.61	13.90	15.22	14.26	15.53	15.84
	3H	8.07	9.24	8.45	9.57	9.93	14.13	15.30	14.51	15.63	16.00
	4H	8.63	9.72	9.03	10.07	10.45	14.24	15.33	14.65	15.68	16.07
	6H	9.09	10.09	9.51	10.46	10.86	14.35	15.35	14.76	15.72	16.11
	8H	9.28	10.23	9.71	10.62	11.02	14.40	15.35	14.83	15.74	16.14
	12H	9.47	10.38	9.90	10.76	11.19	14.45	15.36	14.88	15.74	16.17
4H	2H	7.74	8.83	8.14	9.18	9.56	13.86	14.95	14.26	15.30	15.68
	3H	9.43	10.33	9.85	10.73	11.13	14.23	15.12	14.64	15.53	15.93
	4H	10.27	11.07	10.70	11.49	11.93	14.41	15.21	14.85	15.63	16.07
	6H	10.93	11.62	11.39	12.07	12.53	14.63	15.33	15.10	15.77	16.24
	8H	11.18	11.83	11.65	12.28	12.75	14.74	15.38	15.21	15.83	16.30
	12H	11.44	12.01	11.93	12.49	12.97	14.85	15.43	15.34	15.91	16.38
8H	4H	10.70	11.35	11.17	11.80	12.27	14.46	15.10	14.93	15.55	16.02
	6H	11.66	12.19	12.16	12.68	13.16	14.79	15.32	15.29	15.82	16.30
	8H	12.12	12.60	12.64	13.11	13.60	14.98	15.46	15.50	15.97	16.46
	12H	12.60	13.02	13.11	13.51	14.08	15.22	15.64	15.73	16.13	16.70
12H	4H	10.76	11.34	11.25	11.82	12.29	14.45	15.02	14.94	15.50	15.98
	6H	11.80	12.28	12.32	12.79	13.29	14.82	15.29	15.34	15.81	16.30
	8H	12.39	12.81	12.91	13.31	13.88	15.08	15.50	15.59	15.99	16.56