

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1059377

Luminaire Tested: S123RDR-S775D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1059377
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: S123RDR-S775D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

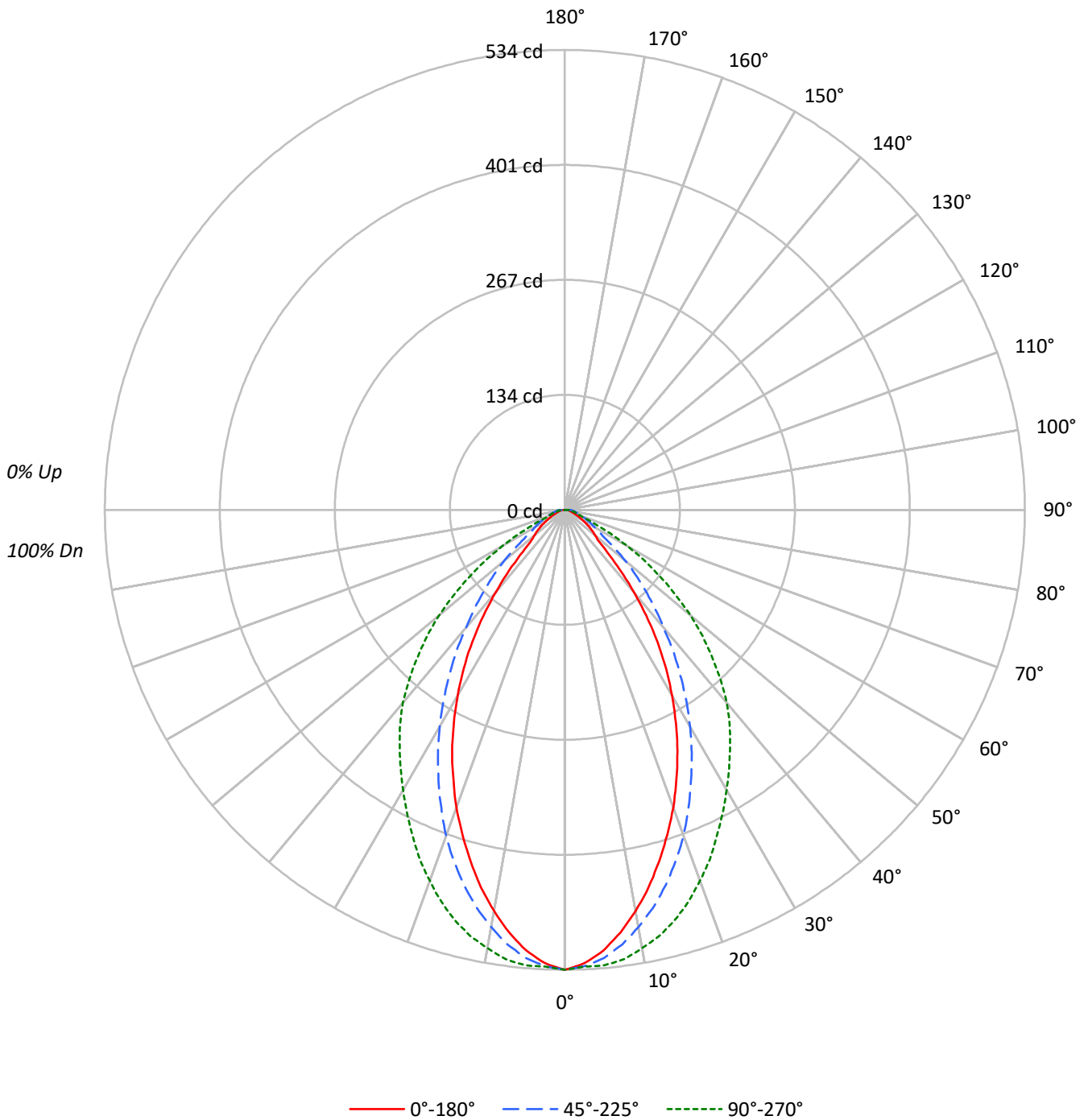
Lumens per Lamp: N/A
Luminaire Lumens: 715.1 lumens
Efficiency: N/A
Efficacy: 27.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.07 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
Input Voltage (V): 120
Input Current (Ain): 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°	6270	6270	6270
5°	6055	6157	6257
10°	5642	5865	6162
15°	5136	5486	5998
20°	4597	5036	5727
25°	4010	4495	5413
30°	3372	3943	5094
35°	2682	3341	4794
40°	1911	2724	4481
45°	1139	2187	4012
50°	840	1666	3475
55°	702	1132	2762
60°	568	935	1940
65°	456	800	1039
70°	374	697	642
75°	354	671	603
80°	372	737	582
85°	525	1051	741

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4012 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.0	6.9
10°-20°	127.4	17.8
20°-30°	162.5	22.7
30°-40°	152.9	21.4
40°-50°	109.9	15.4
50°-60°	63.0	8.8
60°-70°	28.8	4.0
70°-80°	14.5	2.0
80°-90°	7.1	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°	339.0	47.4
0°-40°	491.9	68.8
0°-60°	664.8	93.0
0°-90°	715.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	715.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	534	534	534	534	534	
5°	514	524	522	526	531	48
15°	422	437	451	476	493	118
25°	310	324	347	384	418	141
35°	187	200	233	286	334	116
45°	69	83	132	194	242	57
55°	34	35	55	102	135	31
65°	16	23	29	32	37	16
75°	8	16	15	13	13	9
85°	4	8	8	7	6	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	534.0	534.0	534.0	534.0	534.0
2.5°	526.9	534.7	530.1	530.1	530.8
5°	513.7	523.8	522.3	526.2	530.8
7.5°	495.0	505.9	509.0	518.4	526.2
10°	473.2	485.6	491.9	506.7	516.8
12.5°	449.0	463.0	473.2	491.9	506.7
15°	422.5	437.3	451.3	475.5	493.4
17.5°	395.2	410.0	427.9	456.0	477.1
20°	367.9	382.7	403.0	432.6	458.3
22.5°	338.3	353.1	374.9	408.5	439.6
25°	309.5	323.5	346.9	384.3	417.8
27.5°	279.1	293.1	318.8	359.3	396.8
30°	248.7	262.7	290.8	334.4	375.7
32.5°	218.3	231.5	261.9	310.2	354.7
35°	187.1	200.3	233.1	286.1	334.4
37.5°	155.1	168.4	206.6	264.3	314.1
40°	124.7	139.5	177.7	242.4	292.3
42.5°	95.1	110.7	154.3	219.0	267.4
45°	68.6	83.4	131.7	194.1	241.6
47.5°	52.2	60.0	111.5	169.2	216.7
50°	46.0	46.8	91.2	146.5	190.2
52.5°	39.8	40.5	70.9	124.7	162.1
55°	34.3	35.1	55.3	102.1	134.9
57.5°	28.8	30.4	45.2	81.1	108.4
60°	24.2	27.3	39.8	61.6	82.6
62.5°	19.5	24.9	34.3	45.2	59.2
65°	16.4	22.6	28.8	32.0	37.4
67.5°	13.3	21.0	24.2	22.6	22.6
70°	10.9	18.7	20.3	18.7	18.7
72.5°	9.4	17.9	17.1	15.6	15.6
75°	7.8	15.6	14.8	13.3	13.3
77.5°	7.0	13.3	12.5	11.7	10.9
80°	5.5	10.9	10.9	10.1	8.6
82.5°	4.7	9.4	9.4	8.6	7.0
85°	3.9	7.8	7.8	7.0	5.5
87.5°	3.1	7.0	7.0	6.2	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)