

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: P1059405

Luminaire Tested: S123RDR-S775D950-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1059405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-65)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDR-S775D950-X4F0-XX-UDD-SVL-W
Description: DEFINE 3 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

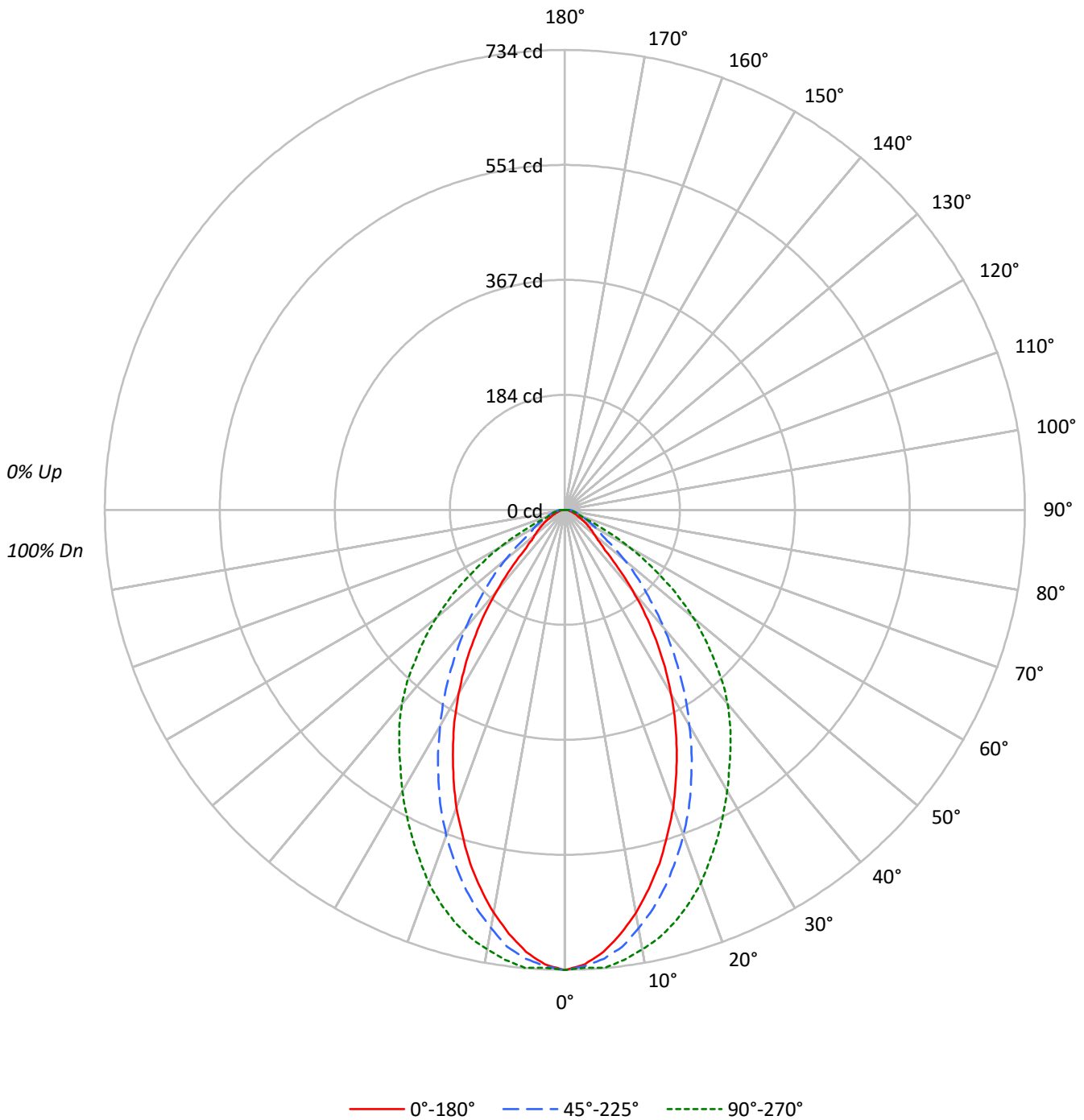
Lumens per Lamp: N/A
Luminaire Lumens: 985.9 lumens
Efficiency: N/A
Efficacy: 38.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.08 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

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	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	102	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	90	81	74	68	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	60	69	64	60	68	63	59	58																																				
6	79	68	61	55	78	67	60	55	66	59	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	55	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	49	43	39	49	43	39	48	43	39	37																																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8624	8624	8624
5°	8345	8474	8646
10°	7788	8083	8496
15°	7098	7553	8274
20°	6315	6909	7924
25°	5473	6181	7471
30°	4590	5394	7026
35°	3635	4590	6604
40°	2574	3775	6196
45°	1514	2984	5575
50°	1133	2267	4883
55°	952	1531	3922
60°	770	1308	2785
65°	608	1114	1470
70°	532	972	910
75°	495	912	871
80°	494	987	866
85°	620	1469	1105

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5575 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	6.9
10°-20°	175.7	17.8
20°-30°	223.7	22.7
30°-40°	210.4	21.3
40°-50°	151.5	15.4
50°-60°	87.5	8.9
60°-70°	40.0	4.1
70°-80°	20.0	2.0
80°-90°	9.4	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°	467.0	47.4
0°-40°	677.4	68.7
0°-60°	916.5	93.0
0°-90°	985.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	985.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	734	734	734	734	734	
5°	708	720	719	726	734	66
15°	584	605	621	656	681	163
25°	422	444	477	530	577	193
35°	254	276	320	394	461	157
45°	91	114	180	270	336	77
55°	46	48	75	142	192	42
65°	22	31	40	45	53	22
75°	11	21	20	19	19	12
85°	5	10	11	10	8	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	734.4	734.4	734.4	734.4	734.4
2.5°	726.2	735.3	729.0	729.9	731.7
5°	708.0	719.8	718.9	726.2	733.5
7.5°	682.4	696.1	703.4	714.4	724.4
10°	653.2	668.7	677.9	697.9	712.5
12.5°	619.5	639.5	651.4	677.9	698.8
15°	583.9	604.9	621.3	656.0	680.6
17.5°	543.7	566.6	587.5	628.6	658.7
20°	505.4	527.3	552.9	597.6	634.1
22.5°	463.5	487.2	516.4	563.8	604.9
25°	422.4	444.3	477.1	530.1	576.6
27.5°	381.4	403.3	437.9	496.3	547.4
30°	338.5	361.3	397.8	462.6	518.2
32.5°	296.5	318.4	359.5	429.7	488.1
35°	253.6	275.5	320.2	394.1	460.7
37.5°	211.7	234.5	281.9	364.9	433.4
40°	167.9	192.5	246.3	334.8	404.2
42.5°	126.8	153.3	210.7	303.8	372.2
45°	91.2	114.0	179.7	270.1	335.7
47.5°	71.2	83.0	151.4	235.4	302.0
50°	62.0	63.9	124.1	203.5	267.3
52.5°	53.8	55.7	97.6	173.3	230.8
55°	46.5	48.4	74.8	142.3	191.6
57.5°	39.2	42.0	62.0	113.1	154.2
60°	32.8	36.5	55.7	86.7	118.6
62.5°	26.5	32.8	47.4	63.9	84.8
65°	21.9	31.0	40.1	44.7	52.9
67.5°	18.2	28.3	33.8	31.9	31.0
70°	15.5	25.5	28.3	25.5	26.5
72.5°	12.8	23.7	23.7	21.9	21.9
75°	10.9	21.0	20.1	19.2	19.2
77.5°	9.1	18.2	17.3	16.4	15.5
80°	7.3	14.6	14.6	13.7	12.8
82.5°	6.4	11.9	11.9	11.9	10.0
85°	4.6	10.0	10.9	10.0	8.2
87.5°	3.6	9.1	9.1	8.2	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)