

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: P1059385

Luminaire Tested: S123RDR-S775D935-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1059385
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: S123RDR-S775D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

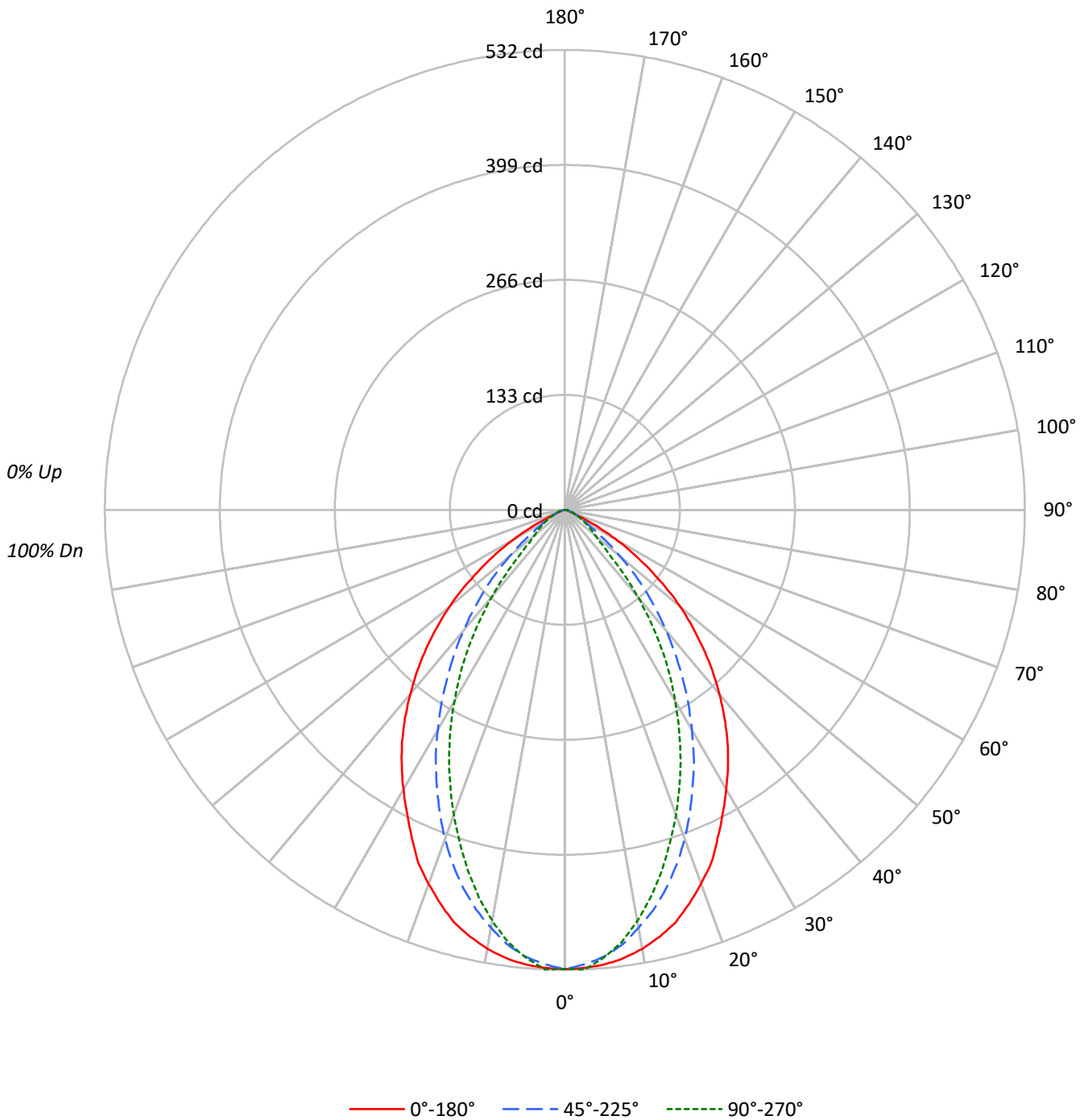
Lumens per Lamp: N/A
Luminaire Lumens: 685.8 lumens
Efficiency: N/A
Efficacy: 26.6 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 0.85 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
Input Voltage (V): 120
Input Current (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				
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	49	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°	6238	6238	6238
5°	6223	6116	6126
10°	6148	5853	5756
15°	6008	5508	5258
20°	5754	5066	4696
25°	5424	4539	4102
30°	5062	3981	3456
35°	4703	3394	2782
40°	4260	2799	2017
45°	3755	2170	1216
50°	3184	1518	826
55°	2424	909	690
60°	1583	580	540
65°	661	433	433
70°	227	309	340
75°	186	222	263
80°	108	169	223
85°	108	108	216

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3755 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	7.2
10°-20°	128.4	18.7
20°-30°	164.7	24.0
30°-40°	154.5	22.5
40°-50°	107.8	15.7
50°-60°	55.7	8.1
60°-70°	19.0	2.8
70°-80°	5.4	0.8
80°-90°	1.1	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°	342.1	49.9
0°-40°	496.6	72.4
0°-60°	660.1	96.3
0°-90°	685.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	685.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	531	531	531	531	531	
5°	528	527	519	521	520	50
15°	494	482	453	438	432	139
25°	419	392	350	326	317	192
35°	328	288	237	206	194	204
45°	226	185	131	90	73	174
55°	118	89	44	34	34	107
65°	24	21	16	15	16	28
75°	4	4	5	6	6	4
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°	531.2	531.2	531.2	531.2	531.2
2.5°	530.4	531.2	526.3	531.2	532.0
5°	527.9	527.1	518.9	521.4	519.7
7.5°	523.0	520.5	507.4	504.1	504.1
10°	515.6	510.7	490.9	485.2	482.7
12.5°	505.7	499.1	473.7	463.0	458.9
15°	494.2	481.9	453.1	438.3	432.5
17.5°	477.8	461.3	430.1	412.8	403.8
20°	460.5	439.9	405.4	384.8	375.8
22.5°	442.4	417.7	378.3	356.1	346.2
25°	418.6	392.2	350.3	326.5	316.6
27.5°	395.5	367.6	323.2	296.0	286.2
30°	373.3	340.4	293.6	267.3	254.9
32.5°	351.1	314.1	265.6	236.8	225.3
35°	328.1	287.8	236.8	206.4	194.1
37.5°	303.4	262.3	209.7	176.8	162.0
40°	277.9	235.2	182.6	145.6	131.6
42.5°	252.5	210.5	155.4	117.6	101.1
45°	226.1	185.0	130.7	90.5	73.2
47.5°	199.8	159.5	106.9	65.8	55.1
50°	174.3	135.7	83.1	48.5	45.2
52.5°	146.4	112.7	62.5	40.3	39.5
55°	118.4	88.8	44.4	34.5	33.7
57.5°	93.7	69.1	32.1	28.8	28.0
60°	67.4	49.3	24.7	23.8	23.0
62.5°	44.4	33.7	19.7	18.9	18.9
65°	23.8	20.6	15.6	14.8	15.6
67.5°	9.9	11.5	11.5	12.3	12.3
70°	6.6	7.4	9.0	9.9	9.9
72.5°	4.9	5.8	6.6	7.4	7.4
75°	4.1	4.1	4.9	5.8	5.8
77.5°	2.5	3.3	3.3	4.1	4.9
80°	1.6	2.5	2.5	3.3	3.3
82.5°	0.8	1.6	1.6	2.5	2.5
85°	0.8	0.8	0.8	0.8	1.6
87.5°	0.0	0.0	0.0	0.0	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)