

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: P1059388

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

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1059388  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123RDR-S775D935-X4F0-XX-UDD-WVL-B  
Description: DEFINE 3 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

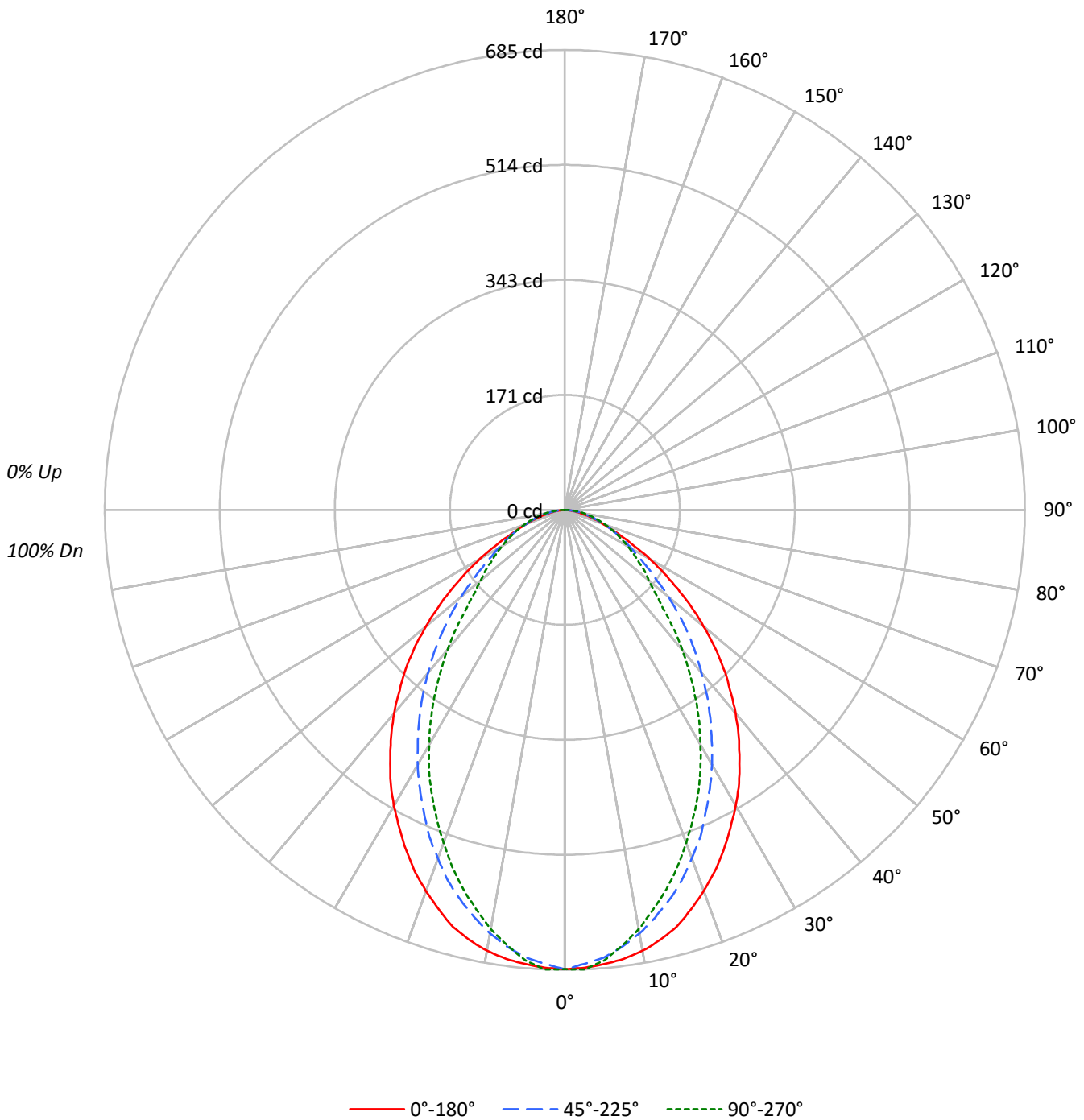
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1196.6 lumens  
Efficiency: N/A  
Efficacy: 46.4 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 0.95 / 1.09  
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	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	89	88				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76				
3	94	85	78	73	92	84	77	72	81	75	71	78	73	69	76	72	68	66				
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58				
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52				
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47				
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	48	44	42				
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38				
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	37	35				
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	8034	8034	8034
5°	8006	7890	7939
10°	7952	7638	7560
15°	7817	7307	7108
20°	7553	6905	6597
25°	7245	6435	6073
30°	6902	5943	5475
35°	6495	5410	4845
40°	6062	4853	4172
45°	5558	4288	3428
50°	4927	3681	2974
55°	4193	3081	2727
60°	3417	2684	2529
65°	2603	2376	2353
70°	2032	2118	2201
75°	1642	1901	2051
80°	1224	1555	1893
85°	660	997	1657

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5558 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.5	5.3
10°-20°	170.9	14.3
20°-30°	232.3	19.4
30°-40°	240.8	20.1
40°-50°	203.1	17.0
50°-60°	144.2	12.0
60°-70°	88.1	7.4
70°-80°	43.8	3.7
80°-90°	9.9	0.8
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°	466.7	39.0
0°-40°	707.5	59.1
0°-60°	1054.7	88.1
0°-90°	1196.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1196.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	684	684	684	684	684	
5°	679	679	669	674	674	64
15°	643	631	601	590	585	180
25°	559	534	497	479	469	257
35°	453	419	377	351	338	283
45°	335	299	258	223	206	257
55°	205	183	150	137	133	184
65°	94	90	86	86	85	96
75°	36	39	42	44	45	39
85°	5	6	7	11	12	7
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	684.2	684.2	684.2	684.2	684.2
2.5°	682.5	683.3	676.8	684.2	685.0
5°	679.2	679.2	669.4	673.5	673.5
7.5°	674.3	672.6	656.2	656.2	654.6
10°	666.9	662.0	640.6	636.5	634.0
12.5°	656.2	648.0	621.7	614.3	609.3
15°	643.0	630.7	601.1	590.4	584.7
17.5°	624.1	611.8	578.9	564.1	557.5
20°	604.4	586.3	552.6	537.8	527.9
22.5°	583.0	560.0	527.1	509.0	498.3
25°	559.2	534.5	496.7	478.6	468.7
27.5°	533.7	506.5	467.9	447.3	437.5
30°	509.0	477.8	438.3	415.3	403.8
32.5°	482.7	447.3	407.0	383.2	371.7
35°	453.1	418.6	377.4	351.1	338.0
37.5°	425.1	389.8	347.0	319.1	304.3
40°	395.5	360.2	316.6	287.8	272.2
42.5°	364.3	330.6	287.8	254.1	239.3
45°	334.7	299.3	258.2	222.8	206.4
47.5°	302.6	269.7	229.4	193.2	181.7
50°	269.7	239.3	201.5	168.6	162.8
52.5°	237.6	212.2	173.5	152.1	149.7
55°	204.8	183.4	150.5	137.3	133.2
57.5°	174.3	158.7	129.1	122.5	120.9
60°	145.5	132.4	114.3	110.2	107.7
62.5°	117.6	110.2	99.5	97.9	96.2
65°	93.7	90.5	85.5	85.5	84.7
67.5°	74.0	74.0	73.2	74.8	74.0
70°	59.2	60.0	61.7	63.3	64.1
72.5°	46.9	49.3	51.0	53.4	54.3
75°	36.2	38.6	41.9	43.6	45.2
77.5°	26.3	28.8	32.1	34.5	36.2
80°	18.1	19.7	23.0	26.3	28.0
82.5°	11.5	12.3	14.8	18.1	19.7
85°	4.9	5.8	7.4	10.7	12.3
87.5°	0.0	0.0	0.8	3.3	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)