

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: P1057963

Luminaire Tested: S122RDR-S485D835-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057963
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-20)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S485D835-X4F0-XX-UDD-SVL-B
Description: DEFINE 2 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

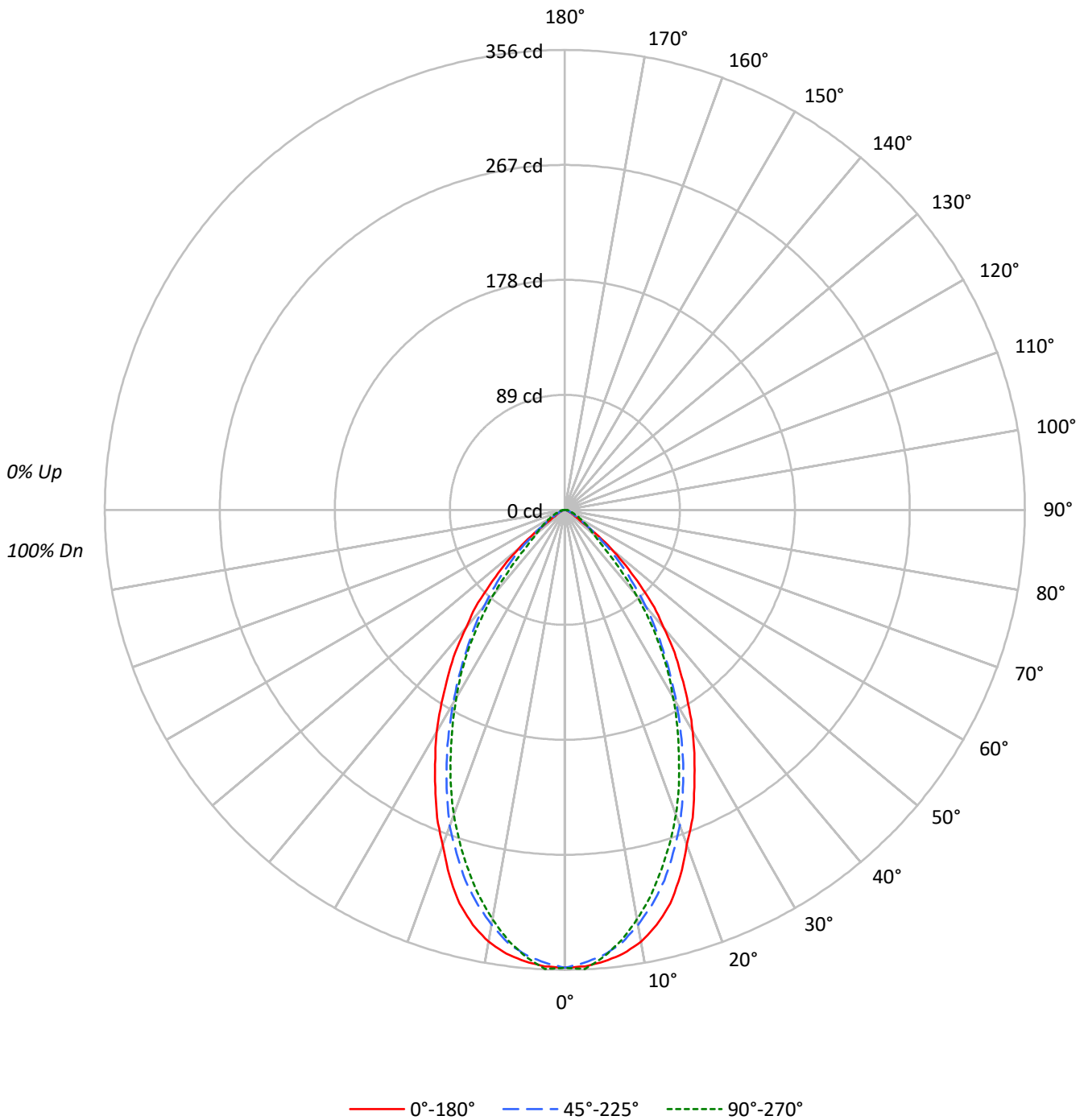
Lumens per Lamp: N/A
Luminaire Lumens: 381.1 lumens
Efficiency: N/A
Efficacy: 19.4 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.85 / 0.91
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64
6	83	73	67	62	82	72	66	62	71	65	61	69	64	61	68	64	60	59
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47
10	67	56	50	45	66	56	49	45	55	49	45	54	49	45	53	48	45	44

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6540	6540	6540
5°	6500	6407	6433
10°	6361	6110	6031
15°	6027	5676	5513
20°	5418	5111	4931
25°	4825	4408	4249
30°	4221	3678	3571
35°	3552	2980	2883
40°	2862	2351	2079
45°	2142	1699	1237
50°	1341	1097	812
55°	454	592	660
60°	262	365	520
65°	183	249	402
70°	151	189	308
75°	100	150	250
80°	74	149	223
85°	0	0	148

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2142 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.7	8.6
10°-20°	83.6	21.9
20°-30°	100.7	26.4
30°-40°	86.0	22.6
40°-50°	50.4	13.2
50°-60°	18.2	4.8
60°-70°	6.5	1.7
70°-80°	2.6	0.7
80°-90°	0.5	0.1
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°	217.0	56.9
0°-40°	303.0	79.5
0°-60°	371.6	97.5
0°-90°	381.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	381.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	354	354	354	354	354	
5°	351	352	346	347	347	33
15°	316	310	297	291	289	88
25°	237	227	216	213	209	109
35°	158	146	132	131	128	98
45°	82	74	65	54	47	63
55°	14	20	18	19	20	18
65°	4	5	6	8	9	5
75°	1	2	2	3	4	2
85°	0	0	0	1	1	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	354.4	354.4	354.4	354.4	354.4
2.5°	353.7	354.4	350.9	354.4	355.8
5°	350.9	351.6	345.9	347.3	347.3
7.5°	346.6	345.9	338.1	336.7	336.0
10°	339.5	337.4	326.1	324.0	321.9
12.5°	328.9	324.7	312.7	309.1	306.3
15°	315.5	310.5	297.1	291.4	288.6
17.5°	297.1	291.4	278.7	273.0	270.2
20°	275.9	270.2	260.3	253.9	251.1
22.5°	258.2	249.0	238.4	234.1	230.6
25°	237.0	227.1	216.5	212.9	208.7
27.5°	217.2	205.1	194.5	191.7	188.2
30°	198.1	185.3	172.6	172.6	167.6
32.5°	177.6	165.5	152.1	151.4	148.5
35°	157.7	145.7	132.3	130.9	128.0
37.5°	139.4	127.3	114.6	110.4	106.8
40°	118.8	108.2	97.6	90.5	86.3
42.5°	102.6	90.5	79.9	71.4	65.8
45°	82.1	73.6	65.1	54.5	47.4
47.5°	63.7	58.0	50.9	38.9	35.4
50°	46.7	43.9	38.2	29.0	28.3
52.5°	29.7	31.1	27.6	22.6	24.8
55°	14.1	19.8	18.4	19.1	20.5
57.5°	9.2	9.9	13.4	15.6	17.0
60°	7.1	7.1	9.9	12.7	14.1
62.5°	5.7	5.7	7.8	10.6	11.3
65°	4.2	5.0	5.7	7.8	9.2
67.5°	3.5	3.5	4.2	6.4	7.1
70°	2.8	2.8	3.5	5.0	5.7
72.5°	2.1	2.1	2.8	4.2	4.2
75°	1.4	2.1	2.1	2.8	3.5
77.5°	1.4	1.4	1.4	2.1	2.8
80°	0.7	0.7	1.4	1.4	2.1
82.5°	0.7	0.7	0.7	0.7	1.4
85°	0.0	0.0	0.0	0.7	0.7
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)