

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: P1058077

Luminaire Tested: S122RDR-S675D930-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-21)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S675D930-X4F0-XX-UDD-BVL-B
Description: DEFINE 2 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

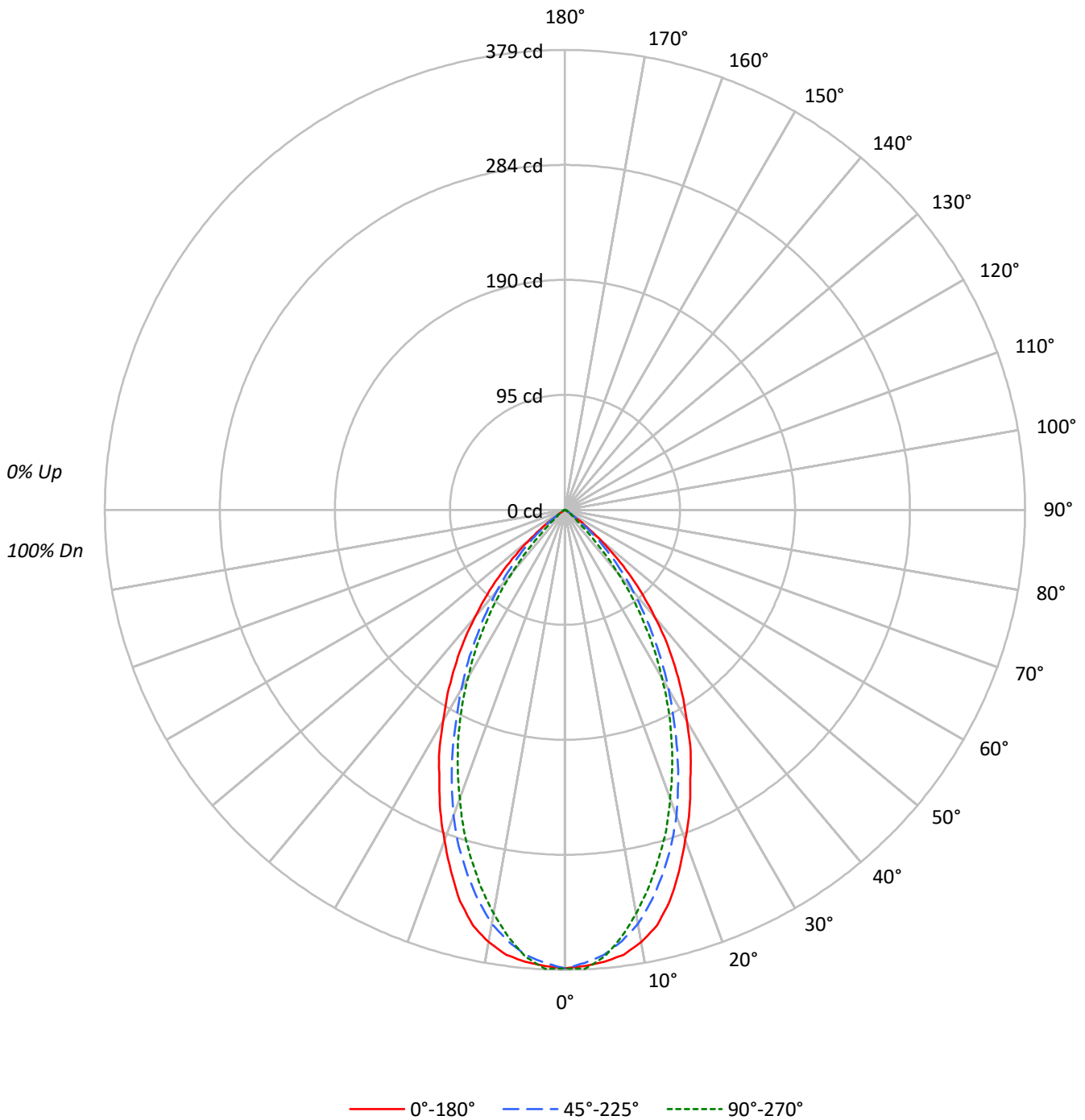
Lumens per Lamp: N/A
Luminaire Lumens: 355.3 lumens
Efficiency: N/A
Efficacy: 13.8 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.8 / 0.88
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	101	95	90	85	99	93	89	85	91	87	83	88	85	82	86	83	81	79
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	75	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	56	54
9	73	63	57	53	72	62	57	52	61	56	52	61	56	52	60	55	52	51
10	69	59	53	49	68	59	53	49	58	53	49	57	52	49	56	52	49	47

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6971	6971	6971
5°	6924	6820	6850
10°	6779	6494	6329
15°	6377	5935	5691
20°	5693	5269	4972
25°	4976	4455	4229
30°	4272	3641	3403
35°	3561	2843	2554
40°	2770	2098	1636
45°	1939	1396	710
50°	1054	735	253
55°	154	257	180
60°	30	59	118
65°	0	35	70
70°	0	0	43
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1939 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.7	9.8
10°-20°	87.5	24.6
20°-30°	102.0	28.7
30°-40°	81.7	23.0
40°-50°	40.6	11.4
50°-60°	8.0	2.3
60°-70°	0.7	0.2
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	224.1	63.1
0°-40°	305.9	86.1
0°-60°	354.5	99.8
0°-90°	355.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	355.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	378	378	378	378	378	
5°	374	374	368	369	370	35
15°	334	327	311	303	298	93
25°	244	232	219	214	208	112
35°	158	142	126	121	113	98
45°	74	66	54	36	27	57
55°	5	10	8	5	6	10
65°	0	0	1	1	2	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	377.8	377.8	377.8	377.8	377.8
2.5°	376.2	377.8	373.8	377.8	378.6
5°	373.8	373.8	368.2	369.0	369.8
7.5°	369.8	368.2	358.6	357.0	355.4
10°	361.8	358.6	346.6	340.2	337.8
12.5°	350.6	345.8	329.8	322.7	318.7
15°	333.8	327.4	310.7	302.7	297.9
17.5°	312.3	306.7	290.7	281.9	277.1
20°	289.9	281.9	268.3	259.6	253.2
22.5°	268.3	258.0	243.6	237.2	230.8
25°	244.4	232.4	218.8	214.0	207.7
27.5°	224.4	209.2	193.3	190.1	184.5
30°	200.5	186.1	170.9	166.1	159.7
32.5°	179.7	163.7	148.6	143.0	137.4
35°	158.1	142.2	126.2	120.6	113.4
37.5°	137.4	122.2	106.2	97.4	91.0
40°	115.0	102.2	87.1	75.9	67.9
42.5°	95.0	83.9	69.5	55.1	47.1
45°	74.3	65.5	53.5	35.9	27.2
47.5°	55.1	48.7	39.1	20.8	14.4
50°	36.7	34.3	25.6	10.4	8.8
52.5°	20.0	21.6	15.2	6.4	7.2
55°	4.8	9.6	8.0	4.8	5.6
57.5°	0.8	1.6	4.0	4.0	4.0
60°	0.8	0.8	1.6	2.4	3.2
62.5°	0.8	0.0	0.8	1.6	2.4
65°	0.0	0.0	0.8	0.8	1.6
67.5°	0.0	0.0	0.0	0.8	0.8
70°	0.0	0.0	0.0	0.8	0.8
72.5°	0.0	0.0	0.0	0.0	0.8
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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)