

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: P1058070

Luminaire Tested: S122RDR-S675D927-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-57)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S675D927-X4F0-XX-UDD-BVL-W
Description: DEFINE 2 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

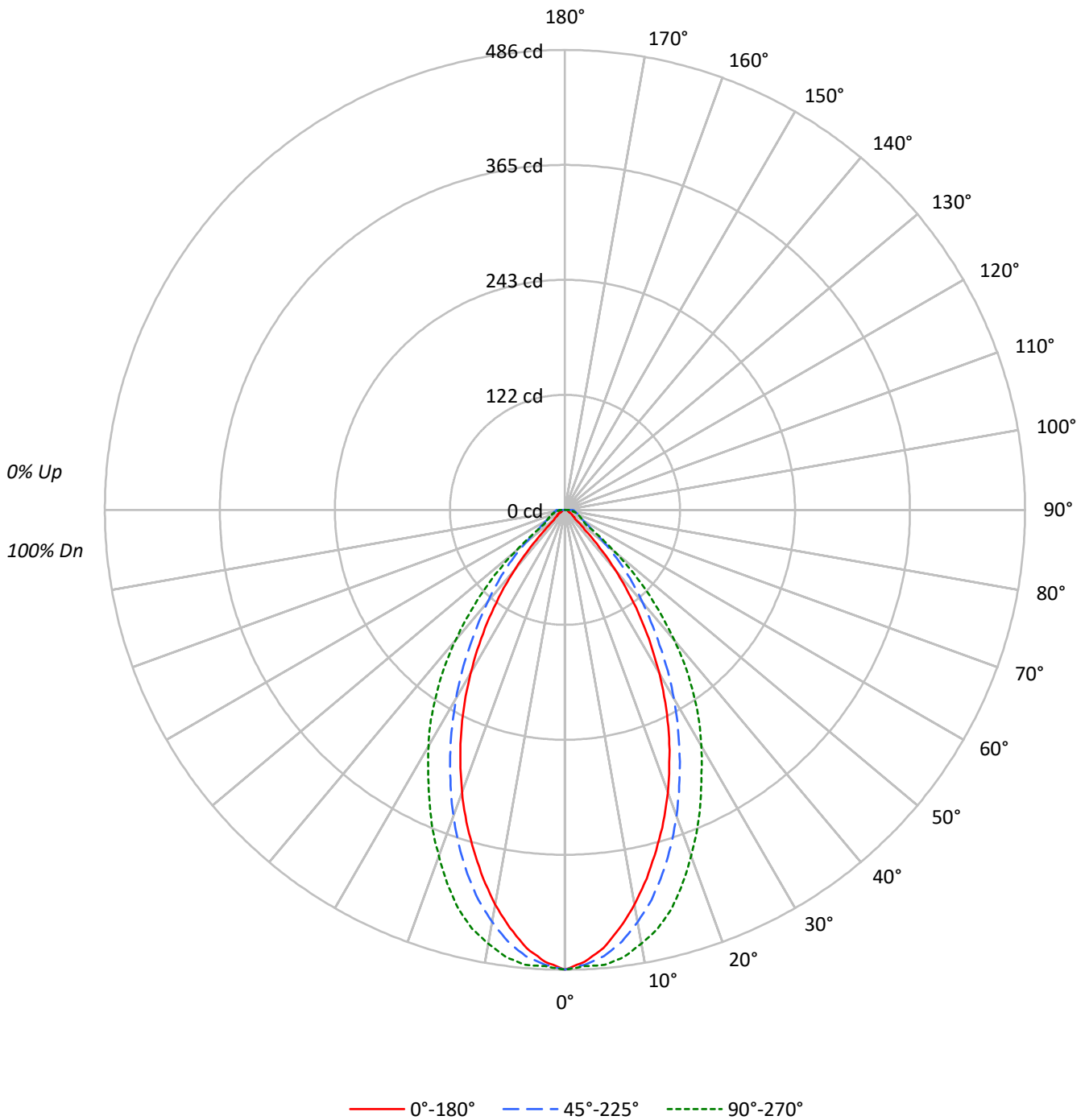
Lumens per Lamp: N/A
Luminaire Lumens: 528.8 lumens
Efficiency: N/A
Efficacy: 20.5 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.96 / 0.91
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81
3	98	91	85	80	96	89	84	79	86	82	78	84	80	76	81	78	75	74
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61
6	82	72	65	60	80	71	64	59	69	63	59	68	62	58	66	62	58	56
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52
8	73	62	55	51	72	62	55	51	60	54	50	59	54	50	58	53	50	48
9	69	58	52	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45
10	66	55	48	44	64	54	48	44	53	48	44	53	47	43	52	47	43	42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8964	8964	8964
5°	8609	8769	8941
10°	7937	8287	8724
15°	7112	7603	8331
20°	6243	6761	7647
25°	5285	5839	6900
30°	4240	4903	6145
35°	3133	3922	5323
40°	1966	3071	4326
45°	770	2312	3205
50°	379	1562	1964
55°	299	1026	875
60°	229	830	805
65°	170	782	782
70°	210	798	798
75°	221	884	834
80°	329	1158	914
85°	656	1969	1313

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 87.5°
 Luminance: 3638 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.4	8.4
10°-20°	112.2	21.2
20°-30°	134.2	25.4
30°-40°	113.0	21.4
40°-50°	64.3	12.2
50°-60°	25.4	4.8
60°-70°	16.0	3.0
70°-80°	11.9	2.2
80°-90°	7.6	1.4
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°	290.8	55.0
0°-40°	403.7	76.3
0°-60°	493.4	93.3
0°-90°	528.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	528.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	486	486	486	486	486	
5°	465	475	473	479	483	43
15°	372	386	398	421	436	104
25°	260	271	287	316	339	118
35°	139	152	174	211	236	86
45°	30	52	89	111	123	28
55°	9	20	32	33	27	8
65°	4	18	18	17	18	4
75°	3	12	12	12	12	3
85°	3	9	9	9	6	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	485.8	485.8	485.8	485.8	485.8
2.5°	478.0	486.6	481.1	481.9	482.7
5°	464.8	474.9	473.4	478.8	482.7
7.5°	445.4	456.3	460.2	469.5	476.5
10°	423.6	436.1	442.3	457.0	465.6
12.5°	398.8	412.7	422.1	440.7	453.2
15°	372.3	385.5	398.0	421.3	436.1
17.5°	345.9	359.1	372.3	398.0	413.5
20°	317.9	330.4	344.3	371.5	389.4
22.5°	288.4	301.6	315.6	343.6	365.3
25°	259.6	271.3	286.8	316.4	338.9
27.5°	229.3	241.0	258.1	288.4	312.5
30°	199.0	210.6	230.1	261.2	288.4
32.5°	168.7	181.1	202.1	236.3	263.5
35°	139.1	151.6	174.1	211.4	236.3
37.5°	110.4	124.4	149.2	185.8	209.1
40°	81.6	97.9	127.5	160.1	179.6
42.5°	54.4	74.6	107.3	134.5	150.8
45°	29.5	52.1	88.6	111.2	122.8
47.5°	16.3	33.4	70.7	88.6	95.6
50°	13.2	23.3	54.4	67.6	68.4
52.5°	10.9	21.0	40.4	48.2	44.3
55°	9.3	20.2	31.9	32.6	27.2
57.5°	7.8	19.4	26.4	23.3	23.3
60°	6.2	19.4	22.5	21.0	21.8
62.5°	4.7	19.4	20.2	18.7	19.4
65°	3.9	17.9	17.9	17.1	17.9
67.5°	3.9	16.3	16.3	15.5	16.3
70°	3.9	15.5	14.8	14.8	14.8
72.5°	3.1	14.0	14.0	13.2	13.2
75°	3.1	12.4	12.4	11.7	11.7
77.5°	3.1	11.7	11.7	10.9	10.1
80°	3.1	10.1	10.9	10.1	8.6
82.5°	3.1	9.3	10.1	9.3	7.0
85°	3.1	8.6	9.3	8.6	6.2
87.5°	2.3	8.6	8.6	7.0	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)