

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: P1058118

Luminaire Tested: S122RDR-S865D830-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058118
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-56)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S865D830-X4F0-XX-UDD-SVL-W
Description: DEFINE 2 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

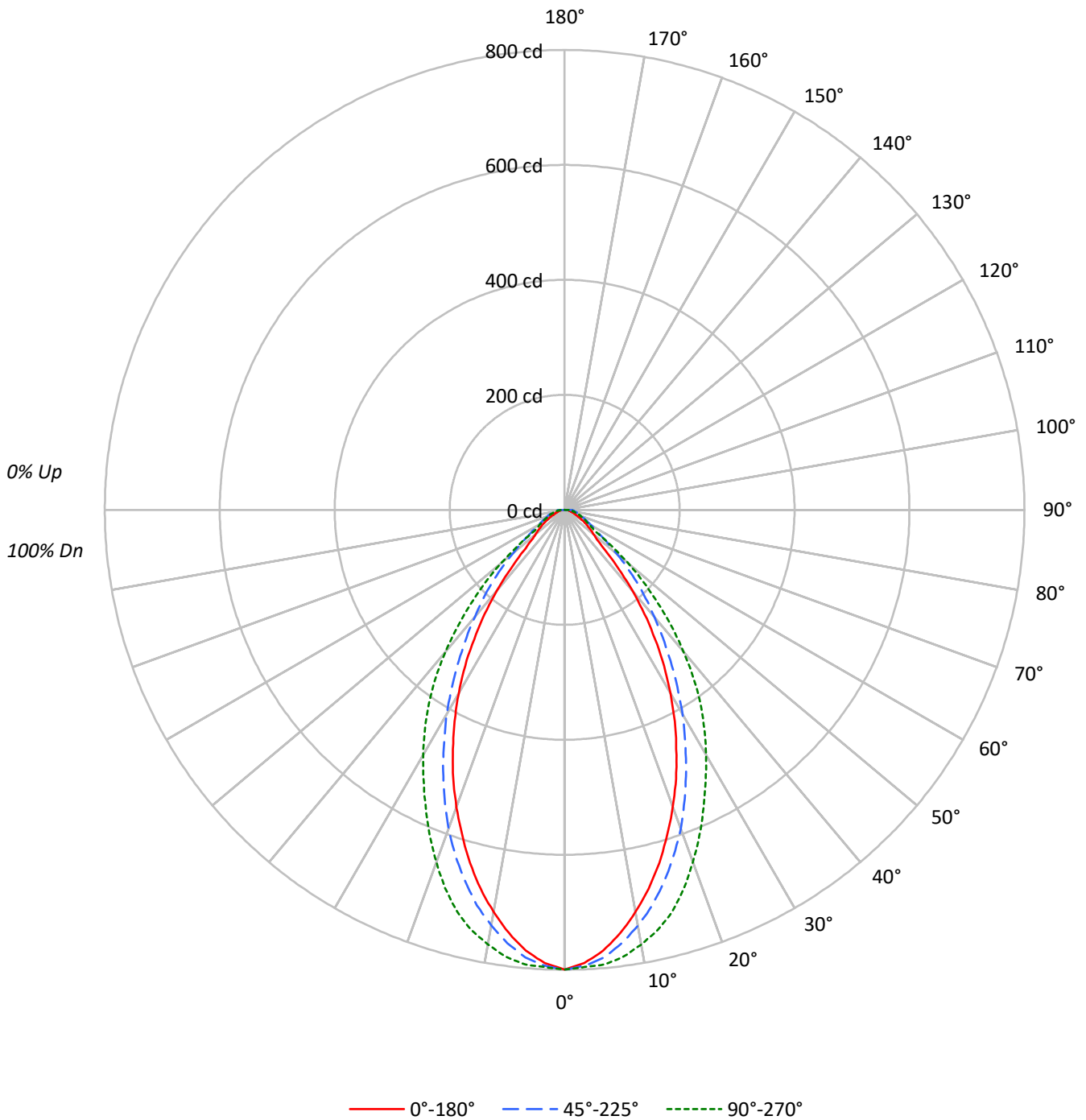
Lumens per Lamp: N/A
Luminaire Lumens: 969.9 lumens
Efficiency: N/A
Efficacy: 27.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.98 / 0.95
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14756	14756	14756
5°	14263	14481	14702
10°	13313	13759	14383
15°	12144	12780	13823
20°	10802	11595	12809
25°	9362	10184	11636
30°	7847	8734	10481
35°	6183	7226	9288
40°	4408	5839	7756
45°	2604	4619	6015
50°	1877	3341	4094
55°	1567	2410	2065
60°	1273	1930	1753
65°	1039	1712	1607
70°	896	1667	1538
75°	848	1697	1526
80°	882	2019	1636
85°	1249	3260	2011

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6015 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	7.6
10°-20°	188.4	19.4
20°-30°	232.4	24.0
30°-40°	206.8	21.3
40°-50°	132.0	13.6
50°-60°	63.4	6.5
60°-70°	37.2	3.8
70°-80°	23.8	2.4
80°-90°	12.7	1.3
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°	494.2	51.0
0°-40°	701.0	72.3
0°-60°	896.3	92.4
0°-90°	969.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	969.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	800	800	800	800	800	
5°	770	784	782	787	794	72
15°	636	651	669	700	724	177
25°	460	478	500	536	572	210
35°	274	296	321	370	412	171
45°	100	130	177	206	230	84
55°	49	63	75	72	64	44
65°	24	43	39	36	37	24
75°	12	26	24	23	21	13
85°	6	14	15	13	10	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	799.7	799.7	799.7	799.7	799.7
2.5°	789.0	802.0	793.7	793.7	796.1
5°	770.0	784.2	781.8	786.6	793.7
7.5°	742.6	758.1	760.5	773.5	784.2
10°	710.5	727.2	734.3	753.3	767.6
12.5°	674.9	691.5	704.6	728.4	748.6
15°	635.7	651.1	669.0	699.9	723.6
17.5°	592.9	613.1	630.9	663.0	690.3
20°	550.1	569.2	590.5	621.4	652.3
22.5°	506.2	524.0	545.4	577.5	613.1
25°	459.8	477.7	500.2	535.9	571.5
27.5°	414.7	432.5	453.9	493.1	531.1
30°	368.3	386.2	409.9	450.3	491.9
32.5°	322.0	341.0	364.8	408.7	452.7
35°	274.5	295.9	320.8	369.5	412.3
37.5°	228.1	249.5	280.4	327.9	368.3
40°	183.0	207.9	242.4	285.2	322.0
42.5°	139.0	166.3	209.1	243.6	275.7
45°	99.8	129.5	177.0	205.6	230.5
47.5°	76.0	97.4	146.1	168.7	186.5
50°	65.4	78.4	116.4	133.1	142.6
52.5°	57.0	68.9	92.7	101.0	101.0
55°	48.7	63.0	74.9	72.5	64.2
57.5°	41.6	57.0	61.8	52.3	54.7
60°	34.5	52.3	52.3	46.3	47.5
62.5°	28.5	48.7	45.2	40.4	41.6
65°	23.8	42.8	39.2	35.6	36.8
67.5°	19.0	38.0	34.5	32.1	32.1
70°	16.6	34.5	30.9	28.5	28.5
72.5°	14.3	29.7	27.3	25.0	25.0
75°	11.9	26.1	23.8	22.6	21.4
77.5°	10.7	22.6	21.4	19.0	17.8
80°	8.3	19.0	19.0	17.8	15.4
82.5°	7.1	16.6	16.6	15.4	13.1
85°	5.9	14.3	15.4	13.1	9.5
87.5°	4.8	13.1	13.1	10.7	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)