

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: P1058037

Luminaire Tested: S122RDR-S675D830-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058037
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-S675D830-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

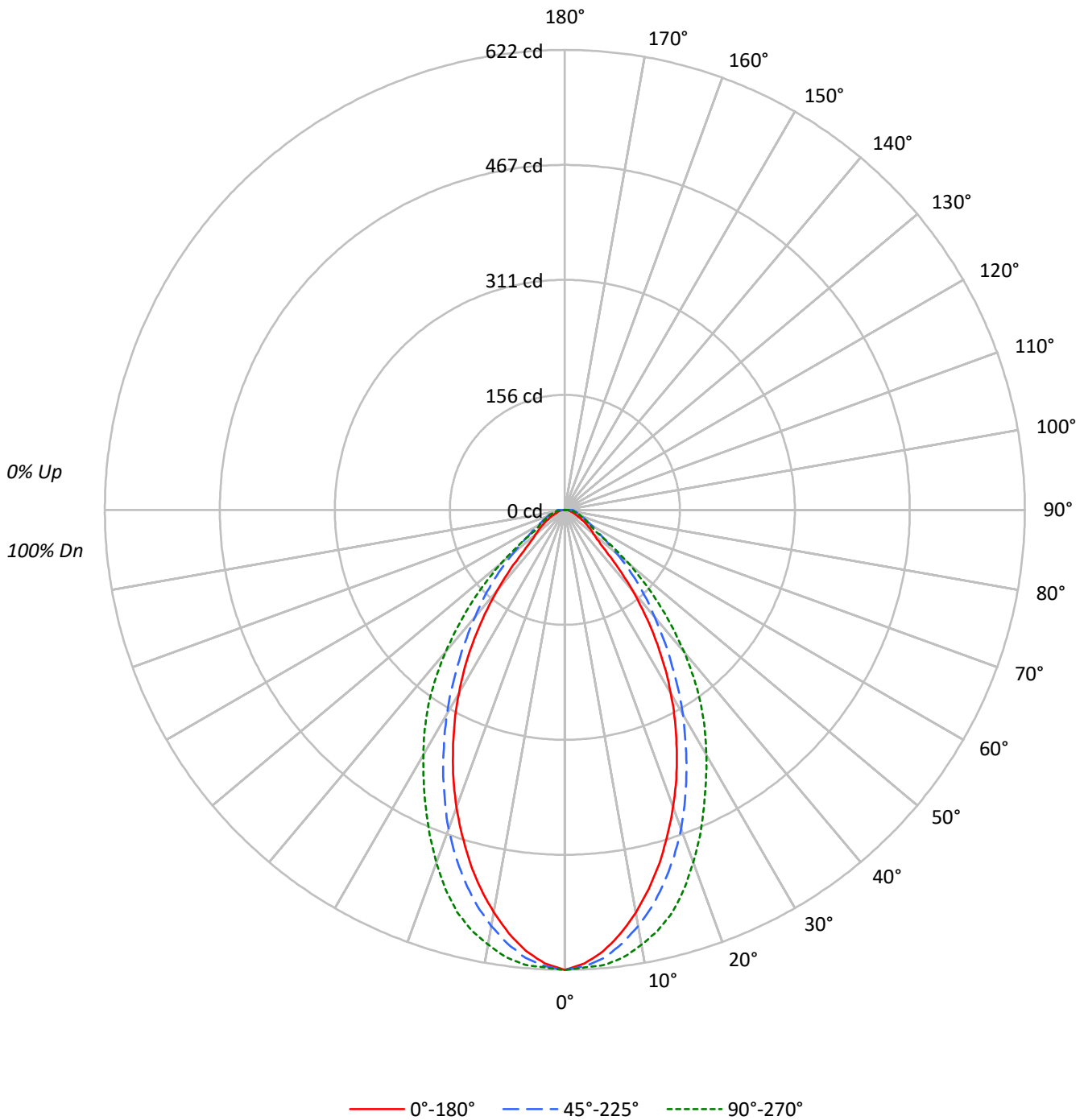
Lumens per Lamp: N/A
Luminaire Lumens: 754.8 lumens
Efficiency: N/A
Efficacy: 29.3 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.98 / 0.95
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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				100
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89				89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80				80
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72				72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65				65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59				59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54				54
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50				50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46				46
9	67	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	42				42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39				39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11483	11483	11483
5°	11099	11269	11442
10°	10360	10706	11192
15°	9450	9945	10757
20°	8406	9023	9968
25°	7285	7926	9054
30°	6107	6797	8156
35°	4812	5623	7226
40°	3430	4543	6036
45°	2028	3596	4682
50°	1461	2601	3186
55°	1219	1876	1605
60°	989	1502	1365
65°	808	1332	1253
70°	696	1295	1198
75°	656	1319	1183
80°	691	1573	1275
85°	974	2541	1567

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4682 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	7.6
10°-20°	146.6	19.4
20°-30°	180.9	24.0
30°-40°	160.9	21.3
40°-50°	102.7	13.6
50°-60°	49.3	6.5
60°-70°	28.9	3.8
70°-80°	18.5	2.4
80°-90°	9.8	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°	384.6	51.0
0°-40°	545.5	72.3
0°-60°	697.5	92.4
0°-90°	754.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	754.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	622	622	622	622	622	
5°	599	610	608	612	618	56
15°	495	507	521	545	563	138
25°	358	372	389	417	445	164
35°	214	230	250	288	321	133
45°	78	101	138	160	179	65
55°	38	49	58	56	50	34
65°	18	33	30	28	29	19
75°	9	20	18	18	17	10
85°	5	11	12	10	7	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	622.3	622.3	622.3	622.3	622.3
2.5°	614.0	624.1	617.7	617.7	619.5
5°	599.2	610.3	608.4	612.1	617.7
7.5°	577.9	589.9	591.8	601.9	610.3
10°	552.9	565.9	571.4	586.2	597.3
12.5°	525.2	538.1	548.3	566.8	582.5
15°	494.7	506.7	520.6	544.6	563.1
17.5°	461.4	477.1	491.0	515.9	537.2
20°	428.1	442.9	459.5	483.6	507.6
22.5°	393.9	407.8	424.4	449.4	477.1
25°	357.8	371.7	389.3	417.0	444.7
27.5°	322.7	336.6	353.2	383.7	413.3
30°	286.6	300.5	319.0	350.4	382.8
32.5°	250.6	265.4	283.9	318.1	352.3
35°	213.6	230.2	249.6	287.6	320.8
37.5°	177.5	194.2	218.2	255.2	286.6
40°	142.4	161.8	188.6	221.9	250.6
42.5°	108.2	129.4	162.7	189.5	214.5
45°	77.7	100.8	137.8	160.0	179.4
47.5°	59.2	75.8	113.7	131.3	145.2
50°	50.9	61.0	90.6	103.6	111.0
52.5°	44.4	53.6	72.1	78.6	78.6
55°	37.9	49.0	58.3	56.4	49.9
57.5°	32.4	44.4	48.1	40.7	42.5
60°	26.8	40.7	40.7	36.1	37.0
62.5°	22.2	37.9	35.1	31.4	32.4
65°	18.5	33.3	30.5	27.7	28.7
67.5°	14.8	29.6	26.8	25.0	25.0
70°	12.9	26.8	24.0	22.2	22.2
72.5°	11.1	23.1	21.3	19.4	19.4
75°	9.2	20.3	18.5	17.6	16.6
77.5°	8.3	17.6	16.6	14.8	13.9
80°	6.5	14.8	14.8	13.9	12.0
82.5°	5.5	12.9	12.9	12.0	10.2
85°	4.6	11.1	12.0	10.2	7.4
87.5°	3.7	10.2	10.2	8.3	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)