

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: P1058045

Luminaire Tested: S122RDR-S675D835-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058045
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-59)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S675D835-X4F0-XX-UDD-SVL-S
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

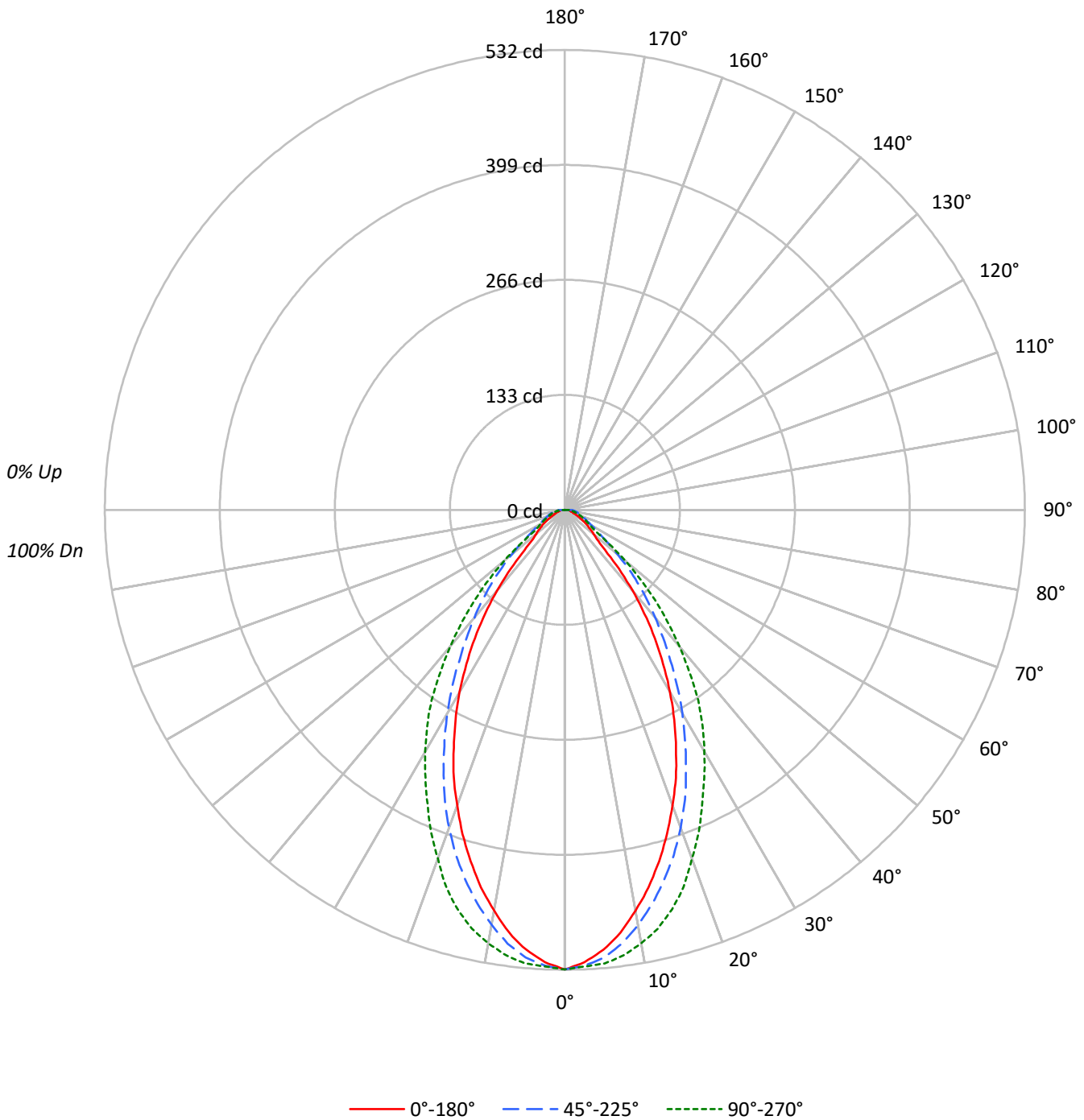
Lumens per Lamp: N/A
Luminaire Lumens: 641.4 lumens
Efficiency: N/A
Efficacy: 24.9 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	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	66	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	44	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°	9809	9809	9809
5°	9465	9630	9756
10°	8821	9134	9539
15°	8039	8469	9145
20°	7146	7686	8436
25°	6191	6749	7649
30°	5184	5789	6876
35°	4089	4794	6055
40°	2929	3922	4962
45°	1714	3098	3839
50°	1240	2253	2589
55°	1042	1609	1358
60°	834	1303	1159
65°	685	1157	1070
70°	583	1111	1003
75°	556	1191	977
80°	627	1456	1041
85°	1037	2287	1461

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3839 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	7.6
10°-20°	124.8	19.5
20°-30°	153.4	23.9
30°-40°	135.6	21.1
40°-50°	86.6	13.5
50°-60°	42.2	6.6
60°-70°	25.2	3.9
70°-80°	16.1	2.5
80°-90°	8.8	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°	326.9	51.0
0°-40°	462.5	72.1
0°-60°	591.3	92.2
0°-90°	641.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	641.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	532	532	532	532	532	
5°	511	522	520	522	527	48
15°	421	433	443	463	479	117
25°	304	315	332	352	376	139
35°	182	191	213	242	269	113
45°	66	84	119	133	147	55
55°	32	43	50	47	42	29
65°	16	29	26	24	24	16
75°	8	18	17	15	14	9
85°	5	10	11	10	7	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	531.6	531.6	531.6	531.6	531.6
2.5°	523.8	533.6	527.7	527.7	528.7
5°	511.0	521.8	519.9	521.8	526.7
7.5°	493.4	504.2	506.1	514.0	519.9
10°	470.8	481.6	487.5	500.2	509.1
12.5°	447.3	458.1	466.9	483.6	496.3
15°	420.8	432.6	443.3	463.0	478.7
17.5°	393.3	405.1	418.8	438.4	457.1
20°	363.9	374.7	391.4	410.0	429.6
22.5°	335.5	345.3	362.9	380.6	404.1
25°	304.1	314.9	331.5	352.1	375.7
27.5°	273.7	284.4	301.1	324.7	349.2
30°	243.3	253.1	271.7	296.2	322.7
32.5°	211.9	221.7	242.3	268.8	296.2
35°	181.5	191.3	212.8	242.3	268.8
37.5°	151.1	161.8	186.4	213.8	236.4
40°	121.6	134.4	162.8	186.4	206.0
42.5°	92.2	109.9	140.3	159.9	175.6
45°	65.7	84.4	118.7	133.4	147.1
47.5°	50.0	64.7	98.1	108.9	117.7
50°	43.2	53.0	78.5	86.3	90.2
52.5°	37.3	47.1	62.8	65.7	63.8
55°	32.4	43.2	50.0	47.1	42.2
57.5°	27.5	40.2	41.2	35.3	36.3
60°	22.6	36.3	35.3	30.4	31.4
62.5°	18.6	33.3	30.4	27.5	27.5
65°	15.7	29.4	26.5	24.5	24.5
67.5°	12.8	26.5	23.5	21.6	21.6
70°	10.8	23.5	20.6	18.6	18.6
72.5°	9.8	20.6	18.6	16.7	16.7
75°	7.8	17.7	16.7	14.7	13.7
77.5°	6.9	14.7	14.7	13.7	11.8
80°	5.9	12.8	13.7	11.8	9.8
82.5°	5.9	11.8	11.8	10.8	7.8
85°	4.9	9.8	10.8	9.8	6.9
87.5°	2.9	8.8	8.8	7.8	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)