

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: P1058044

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058044
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-20)
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-B
Description: DEFINE 2 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

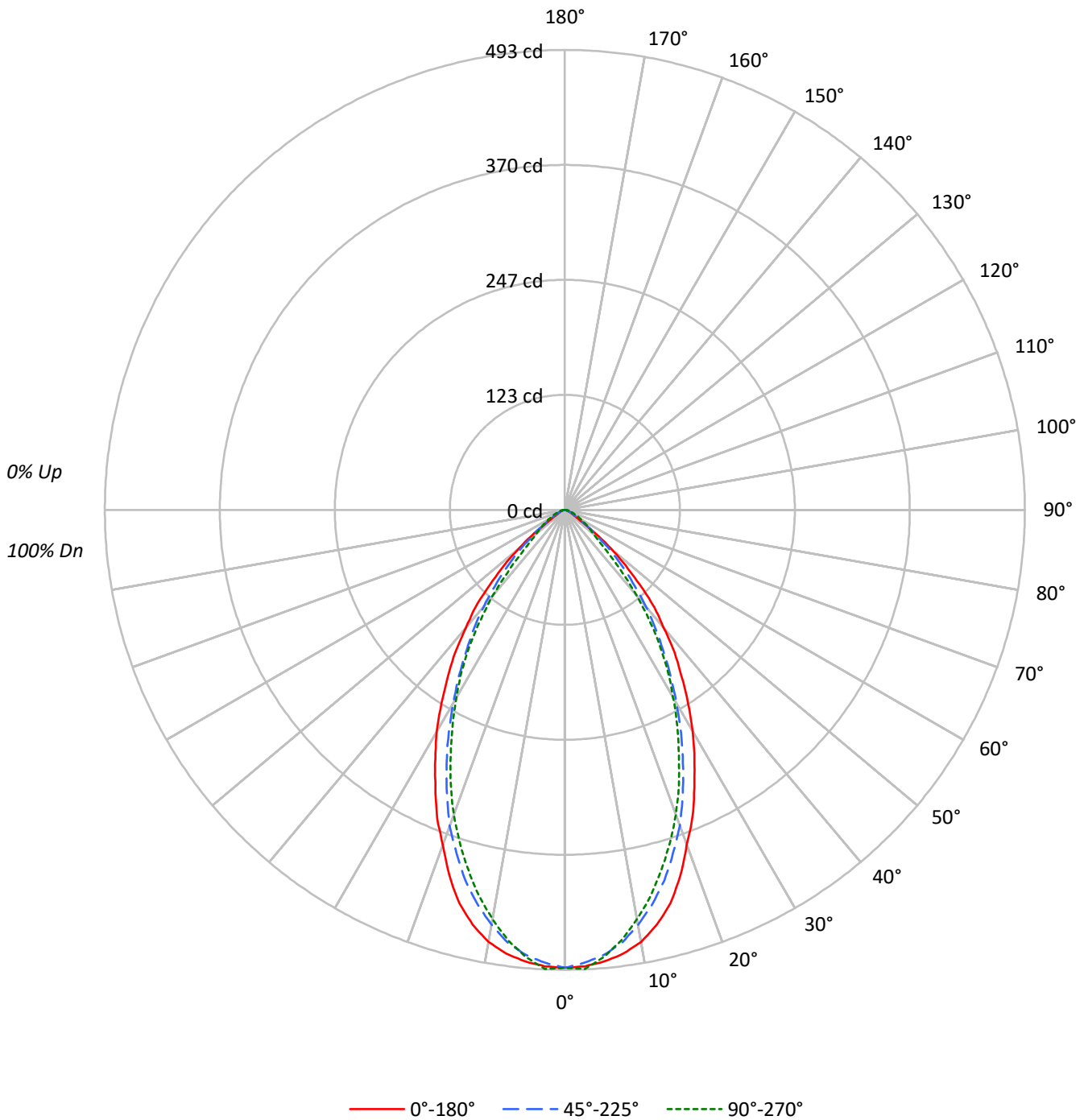
Lumens per Lamp: N/A
Luminaire Lumens: 527.8 lumens
Efficiency: N/A
Efficacy: 20.5 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.85 / 0.91
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64
6	83	73	67	62	82	72	66	62	71	65	61	69	64	61	68	64	60	59
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47
10	67	56	50	45	66	56	49	45	55	49	45	54	49	45	53	48	45	44

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9056	9056	9056
5°	9000	8872	8910
10°	8810	8462	8351
15°	8346	7859	7636
20°	7501	7079	6828
25°	6680	6102	5884
30°	5845	5092	4948
35°	4920	4127	3994
40°	3965	3257	2879
45°	2964	2351	1712
50°	1857	1519	1125
55°	631	820	914
60°	362	506	723
65°	258	341	555
70°	210	264	421
75°	143	207	349
80°	106	213	308
85°	0	0	212

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2964 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.2	8.6
10°-20°	115.8	21.9
20°-30°	139.4	26.4
30°-40°	119.1	22.6
40°-50°	69.8	13.2
50°-60°	25.3	4.8
60°-70°	9.0	1.7
70°-80°	3.6	0.7
80°-90°	0.6	0.1
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°	300.4	56.9
0°-40°	419.6	79.5
0°-60°	514.6	97.5
0°-90°	527.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	527.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	491	491	491	491	491	
5°	486	487	479	481	481	46
15°	437	430	411	404	400	121
25°	328	314	300	295	289	151
35°	218	202	183	181	177	136
45°	114	102	90	75	66	88
55°	20	27	26	26	28	24
65°	6	7	8	11	13	6
75°	2	3	3	4	5	2
85°	0	0	0	1	1	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	490.8	490.8	490.8	490.8	490.8
2.5°	489.8	490.8	485.9	490.8	492.7
5°	485.9	486.8	479.0	481.0	481.0
7.5°	480.0	479.0	468.2	466.3	465.3
10°	470.2	467.2	451.6	448.6	445.7
12.5°	455.5	449.6	433.0	428.1	424.1
15°	436.9	430.0	411.4	403.6	399.7
17.5°	411.4	403.6	385.9	378.1	374.2
20°	382.0	374.2	360.5	351.7	347.7
22.5°	357.5	344.8	330.1	324.2	319.3
25°	328.1	314.4	299.7	294.8	289.0
27.5°	300.7	284.1	269.4	265.5	260.6
30°	274.3	256.6	239.0	239.0	232.2
32.5°	245.9	229.2	210.6	209.6	205.7
35°	218.4	201.8	183.2	181.2	177.3
37.5°	193.0	176.3	158.7	152.8	147.9
40°	164.6	149.9	135.2	125.4	119.5
42.5°	142.0	125.4	110.7	98.9	91.1
45°	113.6	101.9	90.1	75.4	65.6
47.5°	88.2	80.3	70.5	53.9	49.0
50°	64.7	60.7	52.9	40.2	39.2
52.5°	41.1	43.1	38.2	31.3	34.3
55°	19.6	27.4	25.5	26.4	28.4
57.5°	12.7	13.7	18.6	21.6	23.5
60°	9.8	9.8	13.7	17.6	19.6
62.5°	7.8	7.8	10.8	14.7	15.7
65°	5.9	6.9	7.8	10.8	12.7
67.5°	4.9	4.9	5.9	8.8	9.8
70°	3.9	3.9	4.9	6.9	7.8
72.5°	2.9	2.9	3.9	5.9	5.9
75°	2.0	2.9	2.9	3.9	4.9
77.5°	2.0	2.0	2.0	2.9	3.9
80°	1.0	1.0	2.0	2.0	2.9
82.5°	1.0	1.0	1.0	1.0	2.0
85°	0.0	0.0	0.0	1.0	1.0
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)