

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: P1058046

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058046
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-S675D835-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

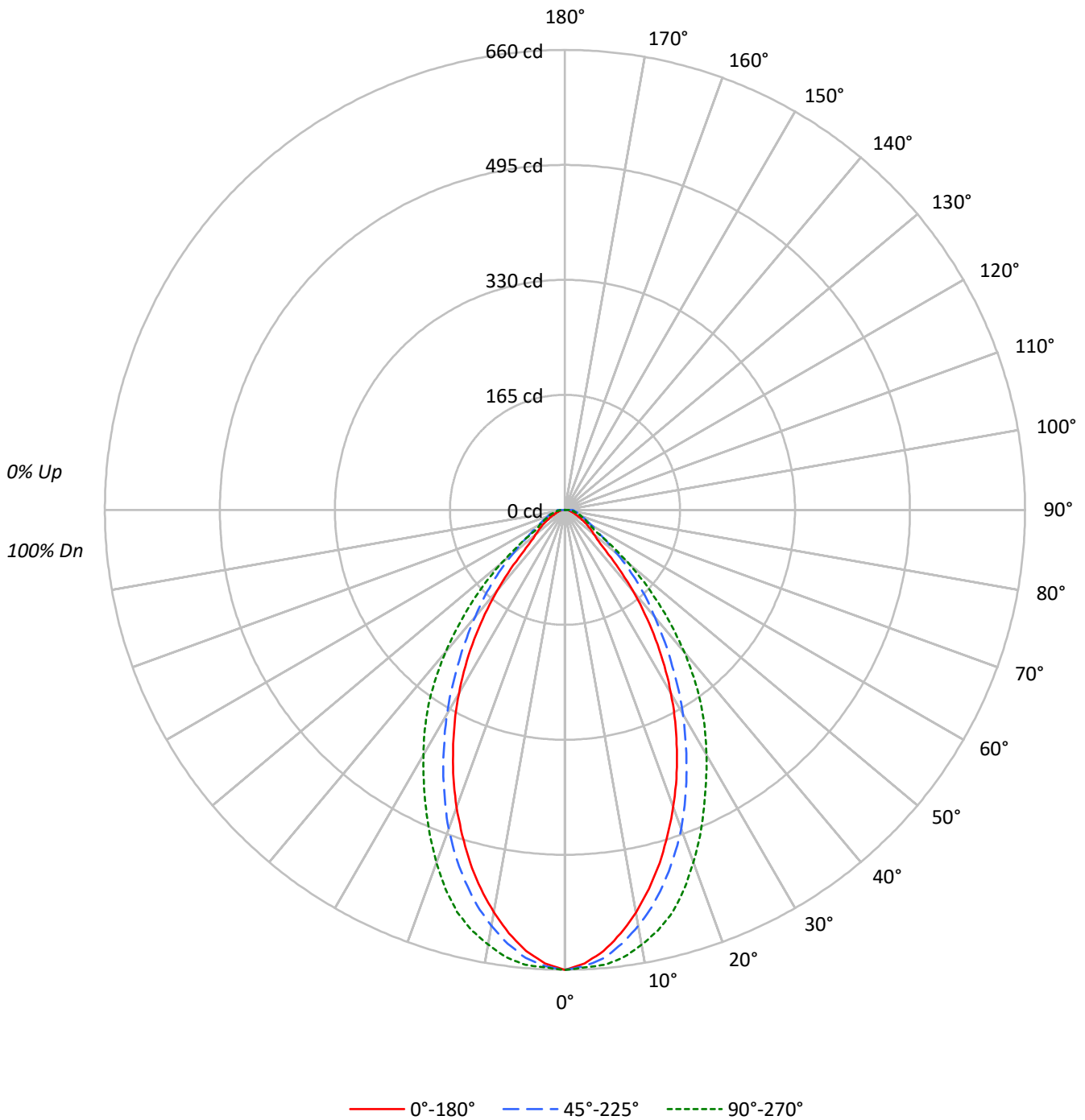
Lumens per Lamp: N/A
Luminaire Lumens: 800.8 lumens
Efficiency: N/A
Efficacy: 31.0 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.98 / 0.95
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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°	12182	12182	12182
5°	11775	11957	12138
10°	10991	11360	11874
15°	10025	10551	11412
20°	8919	9575	10576
25°	7729	8409	9608
30°	6479	7210	8653
35°	5104	5967	7668
40°	3640	4820	6403
45°	2150	3815	4966
50°	1550	2759	3379
55°	1293	1988	1705
60°	1048	1594	1447
65°	856	1415	1327
70°	739	1376	1268
75°	699	1397	1262
80°	733	1668	1360
85°	1037	2710	1651

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4966 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.6	7.6
10°-20°	155.6	19.4
20°-30°	191.9	24.0
30°-40°	170.7	21.3
40°-50°	109.0	13.6
50°-60°	52.3	6.5
60°-70°	30.7	3.8
70°-80°	19.6	2.4
80°-90°	10.5	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°	408.0	51.0
0°-40°	578.7	72.3
0°-60°	740.0	92.4
0°-90°	800.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	800.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	660	660	660	660	660	
5°	636	648	646	649	655	59
15°	525	538	552	578	597	146
25°	380	394	413	442	472	174
35°	227	244	265	305	340	141
45°	82	107	146	170	190	69
55°	40	52	62	60	53	36
65°	20	35	32	29	30	20
75°	10	22	20	19	18	11
85°	5	12	13	11	8	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	660.2	660.2	660.2	660.2	660.2
2.5°	651.4	662.2	655.3	655.3	657.3
5°	635.7	647.5	645.5	649.4	655.3
7.5°	613.1	625.9	627.8	638.6	647.5
10°	586.6	600.4	606.3	622.0	633.7
12.5°	557.2	570.9	581.7	601.3	618.0
15°	524.8	537.6	552.3	577.8	597.4
17.5°	489.5	506.2	520.9	547.4	570.0
20°	454.2	469.9	487.6	513.1	538.6
22.5°	417.9	432.6	450.3	476.8	506.2
25°	379.6	394.4	413.0	442.4	471.9
27.5°	342.4	357.1	374.7	407.1	438.5
30°	304.1	318.8	338.4	371.8	406.1
32.5°	265.8	281.5	301.2	337.5	373.8
35°	226.6	244.3	264.9	305.1	340.4
37.5°	188.4	206.0	231.5	270.8	304.1
40°	151.1	171.7	200.1	235.4	265.8
42.5°	114.8	137.3	172.7	201.1	227.6
45°	82.4	106.9	146.2	169.7	190.3
47.5°	62.8	80.4	120.7	139.3	154.0
50°	54.0	64.7	96.1	109.9	117.7
52.5°	47.1	56.9	76.5	83.4	83.4
55°	40.2	52.0	61.8	59.8	53.0
57.5°	34.3	47.1	51.0	43.2	45.1
60°	28.4	43.2	43.2	38.3	39.2
62.5°	23.5	40.2	37.3	33.4	34.3
65°	19.6	35.3	32.4	29.4	30.4
67.5°	15.7	31.4	28.4	26.5	26.5
70°	13.7	28.4	25.5	23.5	23.5
72.5°	11.8	24.5	22.6	20.6	20.6
75°	9.8	21.6	19.6	18.6	17.7
77.5°	8.8	18.6	17.7	15.7	14.7
80°	6.9	15.7	15.7	14.7	12.8
82.5°	5.9	13.7	13.7	12.8	10.8
85°	4.9	11.8	12.8	10.8	7.8
87.5°	3.9	10.8	10.8	8.8	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)