

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: P1058064

Luminaire Tested: S122RDR-S675D850-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058064
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-S675D850-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: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

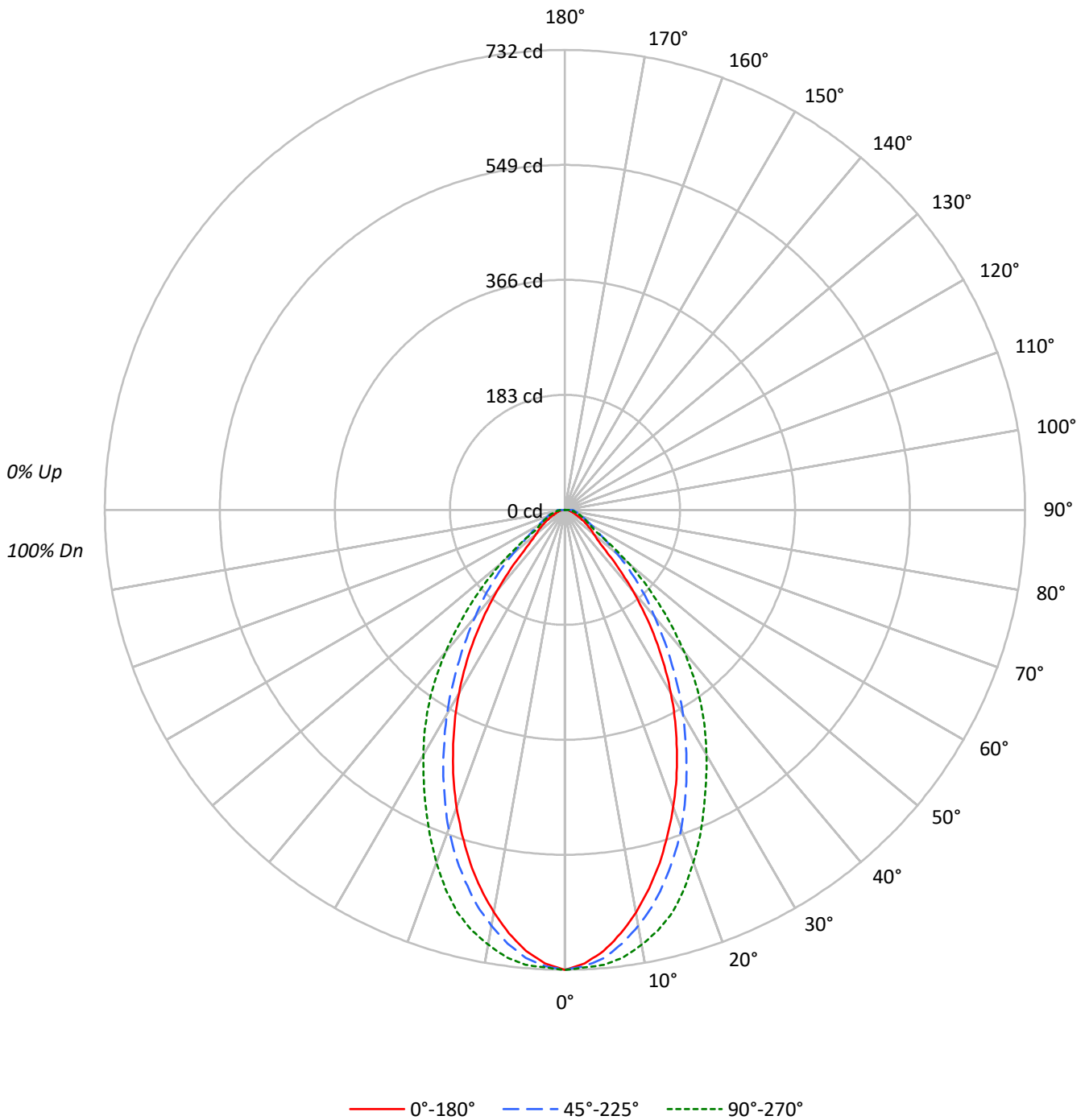
Lumens per Lamp: N/A
Luminaire Lumens: 888.1 lumens
Efficiency: N/A
Efficacy: 34.4 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.98 / 0.95
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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				
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°	13511	13511	13511
5°	13059	13261	13461
10°	12190	12597	13168
15°	11118	11701	12656
20°	9891	10618	11729
25°	8572	9325	10654
30°	7187	7997	9597
35°	5661	6616	8504
40°	4035	5345	7101
45°	2385	4230	5509
50°	1717	3060	3749
55°	1435	2204	1888
60°	1163	1768	1605
65°	952	1567	1471
70°	820	1527	1408
75°	777	1554	1397
80°	808	1849	1498
85°	1143	2985	1842

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5509 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.2	7.6
10°-20°	172.5	19.4
20°-30°	212.8	24.0
30°-40°	189.3	21.3
40°-50°	120.8	13.6
50°-60°	58.0	6.5
60°-70°	34.1	3.8
70°-80°	21.7	2.4
80°-90°	11.6	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°	452.5	51.0
0°-40°	641.8	72.3
0°-60°	820.7	92.4
0°-90°	888.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	888.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	732	732	732	732	732	
5°	705	718	716	720	727	66
15°	582	596	612	641	662	162
25°	421	437	458	491	523	193
35°	251	271	294	338	378	156
45°	91	119	162	188	211	77
55°	45	58	68	66	59	40
65°	22	39	36	33	34	22
75°	11	24	22	21	20	12
85°	5	13	14	12	9	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	732.2	732.2	732.2	732.2	732.2
2.5°	722.4	734.3	726.7	726.7	728.9
5°	705.0	718.0	715.9	720.2	726.7
7.5°	680.0	694.1	696.3	708.2	718.0
10°	650.6	665.8	672.3	689.7	702.8
12.5°	617.9	633.2	645.1	666.9	685.4
15°	582.0	596.2	612.5	640.8	662.5
17.5°	542.9	561.4	577.7	607.1	632.1
20°	503.7	521.1	540.7	569.0	597.3
22.5°	463.5	479.8	499.4	528.7	561.4
25°	421.0	437.3	458.0	490.7	523.3
27.5°	379.7	396.0	415.6	451.5	486.3
30°	337.3	353.6	375.3	412.3	450.4
32.5°	294.8	312.2	334.0	374.2	414.5
35°	251.3	270.9	293.7	338.3	377.5
37.5°	208.9	228.5	256.7	300.3	337.3
40°	167.5	190.4	221.9	261.1	294.8
42.5°	127.3	152.3	191.5	223.0	252.4
45°	91.4	118.6	162.1	188.2	211.1
47.5°	69.6	89.2	133.8	154.5	170.8
50°	59.8	71.8	106.6	121.8	130.6
52.5°	52.2	63.1	84.9	92.5	92.5
55°	44.6	57.7	68.5	66.4	58.7
57.5°	38.1	52.2	56.6	47.9	50.0
60°	31.5	47.9	47.9	42.4	43.5
62.5°	26.1	44.6	41.3	37.0	38.1
65°	21.8	39.2	35.9	32.6	33.7
67.5°	17.4	34.8	31.5	29.4	29.4
70°	15.2	31.5	28.3	26.1	26.1
72.5°	13.1	27.2	25.0	22.8	22.8
75°	10.9	23.9	21.8	20.7	19.6
77.5°	9.8	20.7	19.6	17.4	16.3
80°	7.6	17.4	17.4	16.3	14.1
82.5°	6.5	15.2	15.2	14.1	12.0
85°	5.4	13.1	14.1	12.0	8.7
87.5°	4.4	12.0	12.0	9.8	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)