

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: P1061804

Luminaire Tested: S125RDR-S850D930-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S850D930-X4F0-XX-UDD-BVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

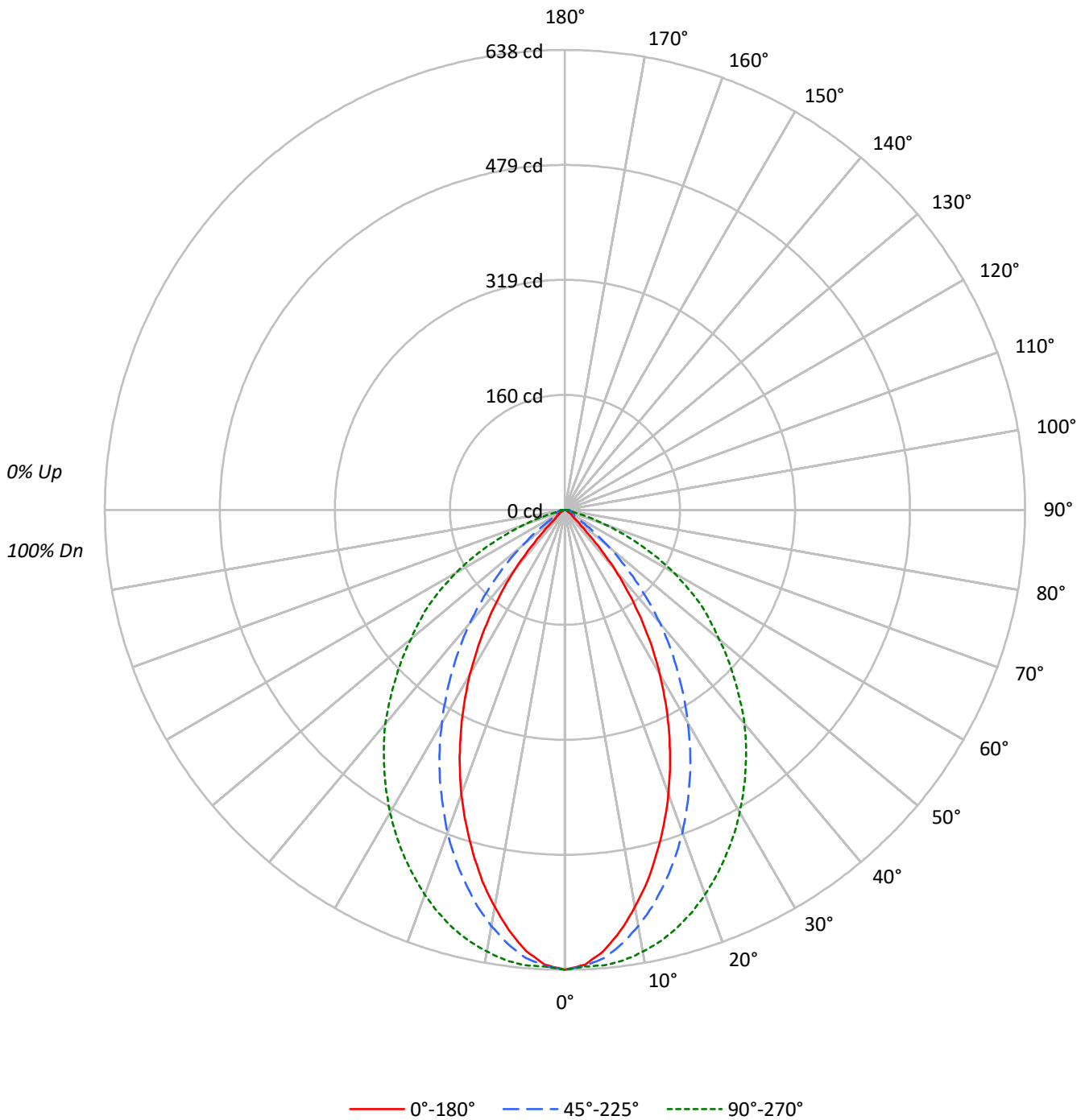
Lumens per Lamp: N/A
Luminaire Lumens: 820.6 lumens
Efficiency: N/A
Efficacy: 31.8 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81				
3	98	90	83	78	95	88	82	78	85	80	76	83	79	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	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59				
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54				
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49				
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45				
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42				
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4393	4393	4393
5°	4246	4312	4383
10°	3911	4098	4351
15°	3511	3814	4279
20°	3074	3488	4163
25°	2597	3116	4017
30°	2093	2711	3854
35°	1539	2285	3672
40°	961	1843	3482
45°	359	1347	3237
50°	168	842	2987
55°	122	349	2763
60°	87	185	2391
65°	51	218	1895
70°	48	254	1202
75°	64	250	375
80°	95	313	282
85°	190	498	371

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3237 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.5	7.1
10°-20°	151.5	18.5
20°-30°	192.9	23.5
30°-40°	179.6	21.9
40°-50°	123.0	15.0
50°-60°	67.8	8.3
60°-70°	32.1	3.9
70°-80°	10.1	1.2
80°-90°	5.2	0.6
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°	402.9	49.1
0°-40°	582.5	71.0
0°-60°	773.3	94.2
0°-90°	820.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	820.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	638	638	638	638	638	
5°	614	622	624	629	634	57
15°	493	508	535	575	600	137
25°	342	363	410	476	529	156
35°	183	209	272	361	437	114
45°	37	62	138	245	332	35
55°	10	12	29	137	230	9
65°	3	4	13	50	116	4
75°	2	4	9	10	14	3
85°	2	6	6	6	5	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	638.0	638.0	638.0	638.0	638.0
2.5°	631.7	638.0	633.3	633.3	634.1
5°	614.4	622.3	623.9	628.6	634.1
7.5°	589.3	599.5	607.4	620.7	630.1
10°	559.4	572.0	586.1	608.1	622.3
12.5°	528.0	541.4	562.6	593.2	612.9
15°	492.6	508.4	535.1	575.1	600.3
17.5°	456.5	473.8	506.8	553.9	585.4
20°	419.6	437.6	476.1	528.8	568.1
22.5°	381.1	400.7	443.1	502.9	549.2
25°	341.8	363.0	410.1	476.1	528.8
27.5°	302.5	324.5	376.4	448.6	507.6
30°	263.2	286.0	341.0	420.4	484.8
32.5°	223.1	248.3	306.4	392.1	461.2
35°	183.1	209.0	271.9	361.4	436.9
37.5°	143.8	170.5	238.1	332.4	412.5
40°	106.9	133.6	205.1	303.3	387.4
42.5°	69.1	97.4	170.5	273.4	359.9
45°	36.9	62.1	138.3	245.1	332.4
47.5°	19.6	33.0	107.6	216.9	306.4
50°	15.7	18.1	78.6	188.6	278.9
52.5°	12.6	14.1	50.3	159.5	254.6
55°	10.2	11.8	29.1	136.7	230.2
57.5°	7.9	9.4	16.5	113.9	201.9
60°	6.3	7.1	13.4	91.1	173.6
62.5°	3.9	5.5	13.4	70.7	145.4
65°	3.1	3.9	13.4	50.3	116.3
67.5°	3.1	3.1	13.4	33.0	87.2
70°	2.4	2.4	12.6	21.2	59.7
72.5°	2.4	2.4	11.0	14.1	34.6
75°	2.4	3.9	9.4	10.2	14.1
77.5°	2.4	6.3	8.6	8.6	7.9
80°	2.4	6.3	7.9	7.1	7.1
82.5°	2.4	6.3	6.3	6.3	5.5
85°	2.4	5.5	6.3	5.5	4.7
87.5°	2.4	5.5	5.5	5.5	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)