

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: P1061630

Luminaire Tested: S125RDR-S375D850-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S375D850-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

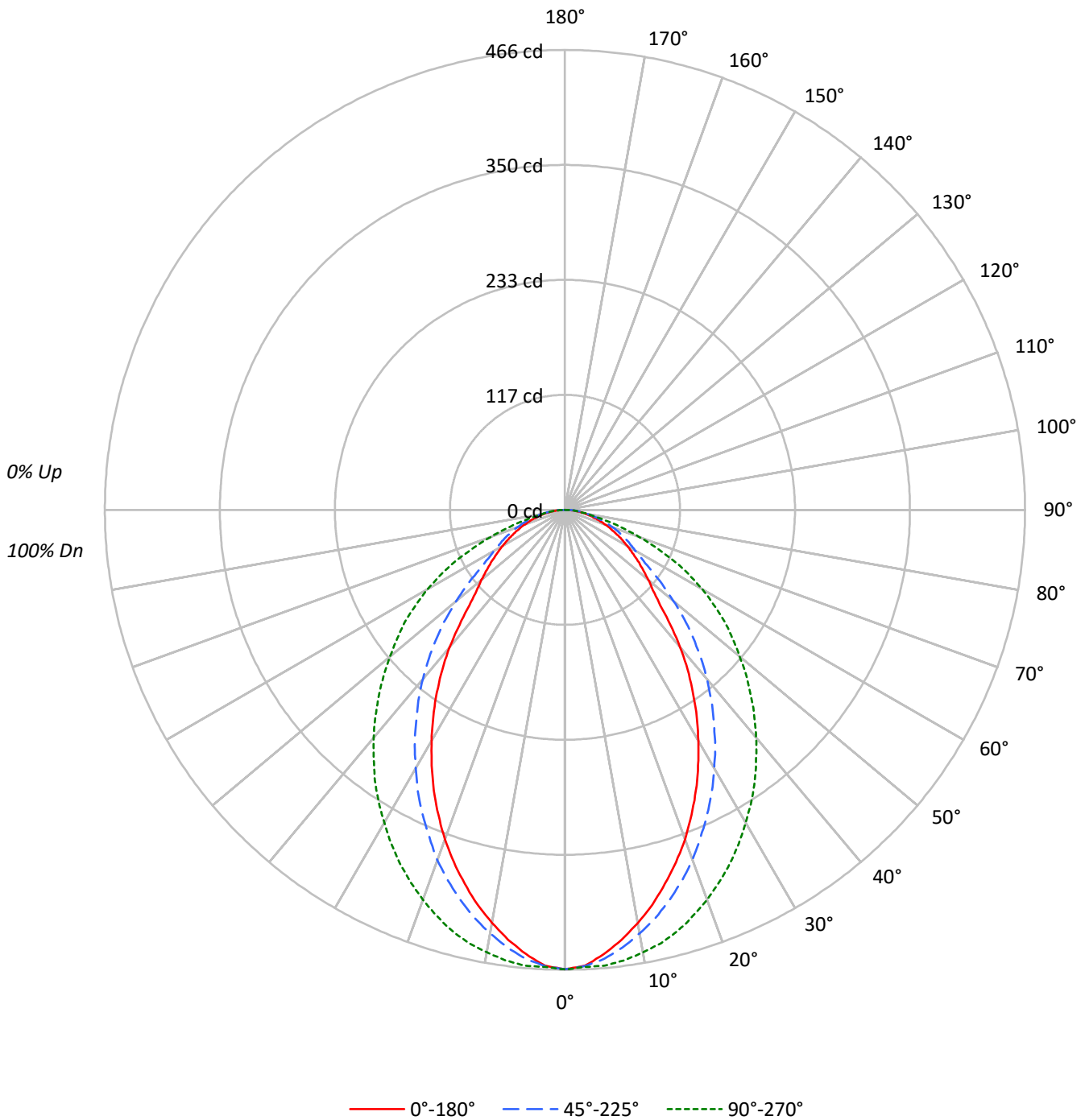
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 872.6 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
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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CATALOG NUMBER: S125RDR-S375D850-X4F0-XX-UDD-WVL-S

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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86				
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74				
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64				
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56				
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46	44				
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40				
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36				
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33				
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3205	3205	3205
5°	3124	3156	3204
10°	2971	3046	3183
15°	2794	2917	3149
20°	2603	2767	3080
25°	2385	2589	3003
30°	2148	2403	2910
35°	1900	2208	2818
40°	1630	2011	2708
45°	1331	1789	2594
50°	1180	1534	2475
55°	1083	1272	2372
60°	998	1126	2209
65°	932	1083	1970
70°	870	1031	1610
75°	803	966	1186
80°	757	904	868
85°	695	885	735

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2594 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.1	4.9
10°-20°	116.0	13.3
20°-30°	159.5	18.3
30°-40°	169.0	19.4
40°-50°	147.5	16.9
50°-60°	112.1	12.8
60°-70°	75.1	8.6
70°-80°	38.7	4.4
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°	318.6	36.5
0°-40°	487.6	55.9
0°-60°	747.2	85.6
0°-90°	872.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	872.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	466	466	466	466	466	
5°	452	457	457	460	464	42
15°	392	399	409	427	442	110
25°	314	324	341	369	395	144
35°	226	239	263	300	335	141
45°	137	150	184	227	266	108
55°	90	93	106	156	198	81
65°	57	59	66	89	121	57
75°	30	32	36	39	45	32
85°	9	11	11	10	9	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	465.5	465.5	465.5	465.5	465.5
2.5°	462.2	465.5	462.7	462.7	463.6
5°	452.0	456.6	456.6	459.9	463.6
7.5°	439.4	444.5	447.3	454.8	460.4
10°	425.0	430.6	435.7	446.9	455.2
12.5°	409.7	415.7	423.6	438.0	449.7
15°	392.0	399.4	409.2	427.3	441.8
17.5°	374.3	381.8	393.9	415.2	431.5
20°	355.3	363.2	377.6	400.8	420.4
22.5°	334.8	343.6	359.0	385.5	408.3
25°	313.9	323.6	340.8	369.2	395.3
27.5°	292.0	303.6	322.2	352.5	381.3
30°	270.2	281.8	302.3	335.3	366.0
32.5°	248.3	260.9	283.2	318.1	351.1
35°	226.0	239.0	262.7	299.9	335.3
37.5°	204.1	217.2	243.7	282.3	318.1
40°	181.4	194.8	223.7	264.1	301.3
42.5°	158.1	172.5	203.7	245.5	284.1
45°	136.7	150.2	183.7	227.4	266.4
47.5°	120.9	129.7	163.7	208.8	249.2
50°	110.2	114.9	143.2	190.7	231.1
52.5°	99.5	103.2	124.2	172.1	213.9
55°	90.2	93.0	106.0	155.8	197.6
57.5°	80.9	83.7	92.1	139.5	178.6
60°	72.5	74.9	81.8	122.3	160.4
62.5°	64.6	66.5	73.9	106.0	140.9
65°	57.2	58.6	66.5	88.8	120.9
67.5°	49.8	51.2	59.1	72.5	99.5
70°	43.2	43.7	51.2	59.1	80.0
72.5°	36.7	37.2	43.2	47.9	61.4
75°	30.2	32.1	36.3	38.6	44.6
77.5°	24.6	27.0	29.3	30.2	30.2
80°	19.1	21.9	22.8	22.8	21.9
82.5°	14.0	16.3	16.7	15.8	14.9
85°	8.8	11.2	11.2	10.2	9.3
87.5°	4.2	6.0	6.0	5.6	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)