

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: P1061810

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061810
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-S850D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

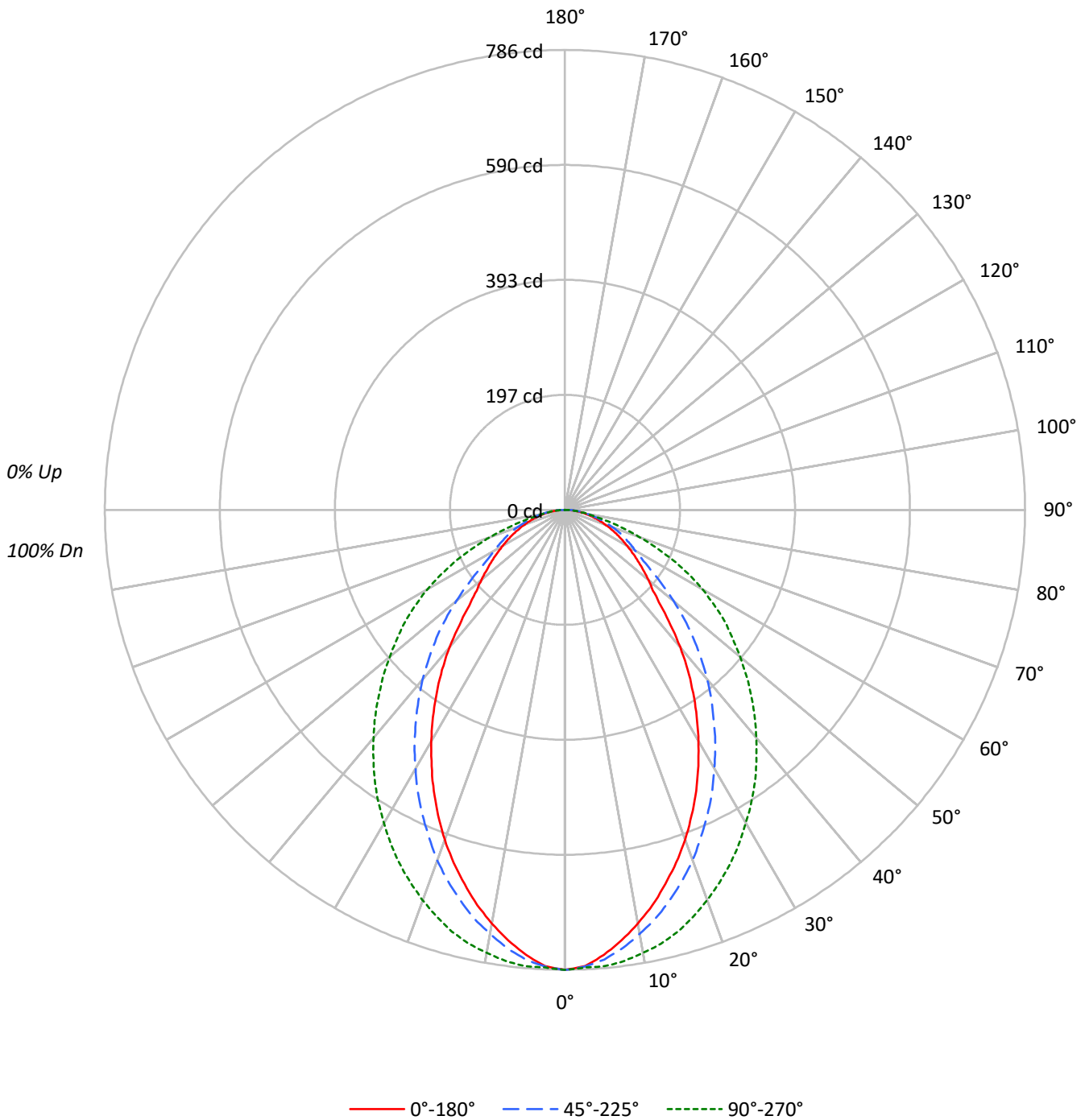
Lumens per Lamp: N/A
Luminaire Lumens: 1473.8 lumens
Efficiency: N/A
Efficacy: 57.1 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	5413	5413	5413
5°	5276	5331	5412
10°	5019	5145	5376
15°	4720	4927	5318
20°	4396	4673	5202
25°	4027	4374	5072
30°	3628	4059	4914
35°	3208	3730	4760
40°	2753	3396	4574
45°	2248	3020	4382
50°	1993	2591	4181
55°	1829	2150	4007
60°	1687	1903	3732
65°	1574	1830	3327
70°	1470	1739	2720
75°	1359	1631	2006
80°	1277	1527	1463
85°	1177	1485	1240

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4382 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	4.9
10°-20°	196.0	13.3
20°-30°	269.3	18.3
30°-40°	285.5	19.4
40°-50°	249.2	16.9
50°-60°	189.3	12.8
60°-70°	126.8	8.6
70°-80°	65.4	4.4
80°-90°	19.6	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°	538.1	36.5
0°-40°	823.5	55.9
0°-60°	1262.0	85.6
0°-90°	1473.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1473.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	786	786	786	786	786	
5°	763	771	771	777	783	71
15°	662	675	691	722	746	186
25°	530	547	576	624	668	243
35°	382	404	444	507	566	238
45°	231	254	310	384	450	182
55°	152	157	179	263	334	137
65°	97	99	112	150	204	96
75°	51	54	61	65	75	55
85°	15	19	19	17	16	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	786.2	786.2	786.2	786.2	786.2
2.5°	780.7	786.2	781.5	781.5	783.0
5°	763.4	771.3	771.3	776.8	783.0
7.5°	742.2	750.8	755.6	768.1	777.6
10°	717.9	727.3	735.9	754.8	768.9
12.5°	691.9	702.2	715.5	739.9	759.5
15°	662.1	674.7	691.2	721.8	746.1
17.5°	632.3	644.8	665.2	701.4	728.9
20°	600.0	613.4	637.7	677.0	710.0
22.5°	565.5	580.4	606.3	651.1	689.6
25°	530.1	546.6	575.7	623.6	667.6
27.5°	493.2	512.9	544.3	595.3	644.0
30°	456.3	476.0	510.5	566.3	618.1
32.5°	419.4	440.6	478.3	537.2	593.0
35°	381.7	403.7	443.8	506.6	566.3
37.5°	344.8	366.8	411.6	476.7	537.2
40°	306.3	329.1	377.8	446.1	508.9
42.5°	267.0	291.4	344.0	414.7	479.9
45°	230.9	253.7	310.2	384.1	450.0
47.5°	204.2	219.1	276.5	352.6	421.0
50°	186.1	194.0	241.9	322.0	390.3
52.5°	168.1	174.4	209.7	290.6	361.3
55°	152.4	157.1	179.1	263.1	333.8
57.5°	136.7	141.4	155.5	235.6	301.6
60°	122.5	126.5	138.2	206.6	271.0
62.5°	109.2	112.3	124.9	179.1	238.0
65°	96.6	99.0	112.3	150.0	204.2
67.5°	84.0	86.4	99.7	122.5	168.1
70°	73.0	73.8	86.4	99.7	135.1
72.5°	62.0	62.8	73.0	80.9	103.7
75°	51.1	54.2	61.3	65.2	75.4
77.5°	41.6	45.6	49.5	51.1	51.1
80°	32.2	36.9	38.5	38.5	36.9
82.5°	23.6	27.5	28.3	26.7	25.1
85°	14.9	18.8	18.8	17.3	15.7
87.5°	7.1	10.2	10.2	9.4	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)