

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: P1175388

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

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175388
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)
Test Lab: INNOVATION CENTER
Issue Date: 8/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S850D930-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

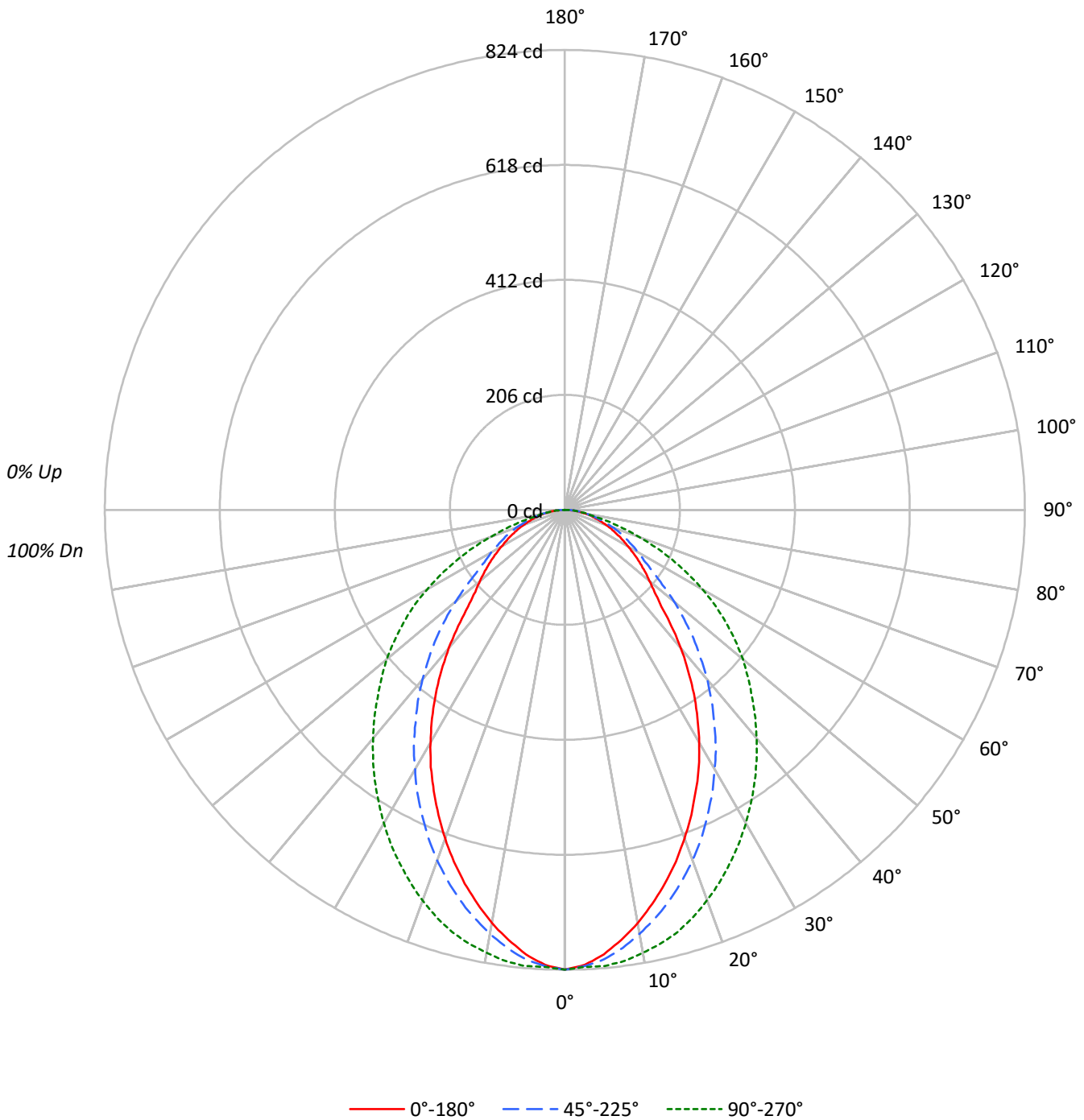
Lumens per Lamp: N/A
Luminaire Lumens: 1551.9 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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				100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86				86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74				74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64				64
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56				56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44				44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40				40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36				36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33				33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30				30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5672	5672	5672
5°	5524	5587	5670
10°	5256	5393	5632
15°	4940	5164	5578
20°	4591	4898	5457
25°	4218	4590	5313
30°	3825	4265	5154
35°	3386	3920	4984
40°	2904	3564	4802
45°	2384	3173	4616
50°	2120	2726	4457
55°	1955	2283	4230
60°	1801	2079	3919
65°	1675	1960	3464
70°	1562	1830	2830
75°	1468	1692	2120
80°	1388	1554	1527
85°	1272	1548	1272

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4616 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	4.9
10°-20°	205.6	13.2
20°-30°	282.8	18.2
30°-40°	299.9	19.3
40°-50°	262.5	16.9
50°-60°	201.4	13.0
60°-70°	134.2	8.6
70°-80°	68.8	4.4
80°-90°	20.4	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°	564.6	36.4
0°-40°	864.6	55.7
0°-60°	1328.5	85.6
0°-90°	1551.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1551.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	824	824	824	824	824	
5°	799	810	808	814	820	75
15°	693	709	724	759	782	194
25°	555	574	604	655	699	255
35°	403	422	466	535	593	251
45°	245	265	326	407	474	193
55°	163	166	190	282	352	146
65°	103	104	120	158	213	102
75°	55	59	64	67	80	59
85°	16	18	20	19	16	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	823.8	823.8	823.8	823.8	823.8
2.5°	816.1	824.5	818.2	818.9	819.6
5°	799.3	809.8	808.4	814.0	820.3
7.5°	776.9	788.1	791.6	805.6	815.4
10°	751.8	764.3	771.3	792.3	805.6
12.5°	723.1	737.8	749.0	776.2	795.8
15°	693.0	709.1	724.5	758.7	782.5
17.5°	660.8	676.9	697.2	736.4	765.0
20°	626.6	644.1	668.5	710.5	744.8
22.5°	591.6	609.8	637.8	683.9	723.1
25°	555.2	574.1	604.2	655.2	699.3
27.5°	519.6	537.1	572.0	626.6	674.8
30°	481.1	499.3	536.4	596.5	648.3
32.5°	442.7	460.8	503.5	566.4	621.0
35°	402.8	421.7	466.4	535.0	593.0
37.5°	362.9	382.5	432.2	502.8	564.3
40°	323.1	344.1	396.5	470.6	534.3
42.5°	282.5	304.9	360.1	439.2	504.9
45°	244.8	265.0	325.9	407.0	474.1
47.5°	217.5	229.4	289.5	374.1	444.8
50°	197.9	203.5	254.5	342.7	416.1
52.5°	180.4	183.9	220.3	313.3	384.6
55°	162.9	166.4	190.2	282.5	352.4
57.5°	146.2	148.3	167.8	251.7	320.3
60°	130.8	132.2	151.0	221.0	284.6
62.5°	116.8	117.5	135.0	189.5	249.0
65°	102.8	103.5	120.3	158.0	212.6
67.5°	90.2	90.2	106.3	129.4	177.6
70°	77.6	77.6	90.9	104.9	140.6
72.5°	66.4	67.8	76.9	84.6	109.8
75°	55.2	58.7	63.6	67.1	79.7
77.5°	44.8	49.0	51.0	52.4	53.1
80°	35.0	37.8	39.2	39.9	38.5
82.5°	25.9	28.0	28.7	28.7	26.6
85°	16.1	18.2	19.6	18.9	16.1
87.5°	7.7	10.5	11.2	9.8	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)