

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: P1061837

Luminaire Tested: S125RDR-S850D950-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061837
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-S850D950-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, 90 CRI LEDS
Ballast/Driver: -

Summary

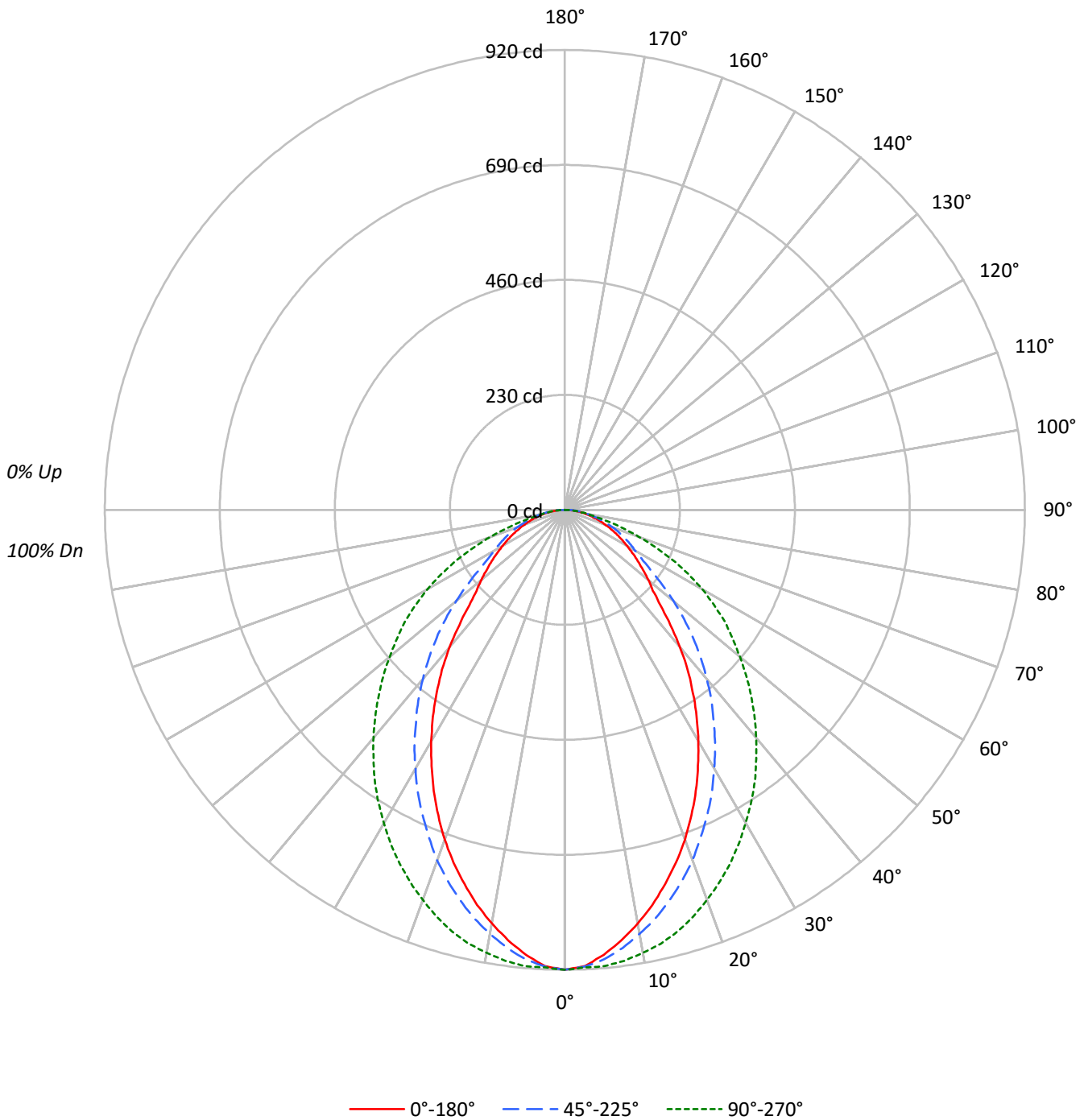
Lumens per Lamp: N/A
Luminaire Lumens: 1724.5 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	6334	6334	6334
5°	6174	6238	6333
10°	5873	6020	6290
15°	5522	5765	6224
20°	5144	5467	6087
25°	4712	5117	5935
30°	4246	4750	5751
35°	3754	4364	5569
40°	3221	3973	5352
45°	2631	3535	5128
50°	2333	3032	4893
55°	2140	2515	4689
60°	1975	2227	4367
65°	1841	2141	3892
70°	1721	2035	3183
75°	1588	1907	2346
80°	1495	1784	1713
85°	1382	1746	1454

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5128 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.1	4.9
10°-20°	229.3	13.3
20°-30°	315.2	18.3
30°-40°	334.0	19.4
40°-50°	291.6	16.9
50°-60°	221.5	12.8
60°-70°	148.4	8.6
70°-80°	76.5	4.4
80°-90°	22.9	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°	629.6	36.5
0°-40°	963.6	55.9
0°-60°	1476.7	85.6
0°-90°	1724.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1724.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	920	920	920	920	920	
5°	893	902	902	909	916	84
15°	775	789	809	845	873	217
25°	620	640	674	730	781	284
35°	447	472	519	593	663	279
45°	270	297	363	449	527	213
55°	178	184	210	308	391	160
65°	113	116	131	176	239	112
75°	60	63	72	76	88	64
85°	18	22	22	20	18	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	919.9	919.9	919.9	919.9	919.9
2.5°	913.5	919.9	914.4	914.4	916.3
5°	893.3	902.5	902.5	908.9	916.3
7.5°	868.5	878.6	884.1	898.8	909.8
10°	840.0	851.0	861.1	883.2	899.7
12.5°	809.7	821.6	837.2	865.7	888.7
15°	774.7	789.4	808.7	844.6	873.1
17.5°	739.8	754.5	778.4	820.7	852.9
20°	702.1	717.8	746.2	792.2	830.8
22.5°	661.7	679.2	709.5	761.9	806.9
25°	620.3	639.6	673.6	729.7	781.2
27.5°	577.1	600.1	636.9	696.6	753.6
30°	534.0	556.9	597.4	662.6	723.3
32.5°	490.8	515.6	559.7	628.6	693.9
35°	446.6	472.4	519.2	592.8	662.6
37.5°	403.5	429.2	481.6	557.8	628.6
40°	358.4	385.1	442.0	522.0	595.5
42.5°	312.5	341.0	402.5	485.2	561.5
45°	270.2	296.8	363.0	449.4	526.6
47.5°	238.9	256.4	323.5	412.6	492.6
50°	217.8	227.0	283.1	376.8	456.8
52.5°	196.7	204.0	245.4	340.0	422.7
55°	178.3	183.8	209.5	307.9	390.6
57.5°	159.9	165.4	182.0	275.7	352.9
60°	143.4	148.0	161.7	241.7	317.1
62.5°	127.7	131.4	146.1	209.5	278.5
65°	113.0	115.8	131.4	175.5	238.9
67.5°	98.3	101.1	116.7	143.4	196.7
70°	85.5	86.4	101.1	116.7	158.1
72.5°	72.6	73.5	85.5	94.7	121.3
75°	59.7	63.4	71.7	76.3	88.2
77.5°	48.7	53.3	57.9	59.7	59.7
80°	37.7	43.2	45.0	45.0	43.2
82.5°	27.6	32.2	33.1	31.2	29.4
85°	17.5	22.1	22.1	20.2	18.4
87.5°	8.3	11.9	11.9	11.0	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)