

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: P1061554

Luminaire Tested: S125RDR-S1270D927-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1270D927-X4F0-XX-UDD-SVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

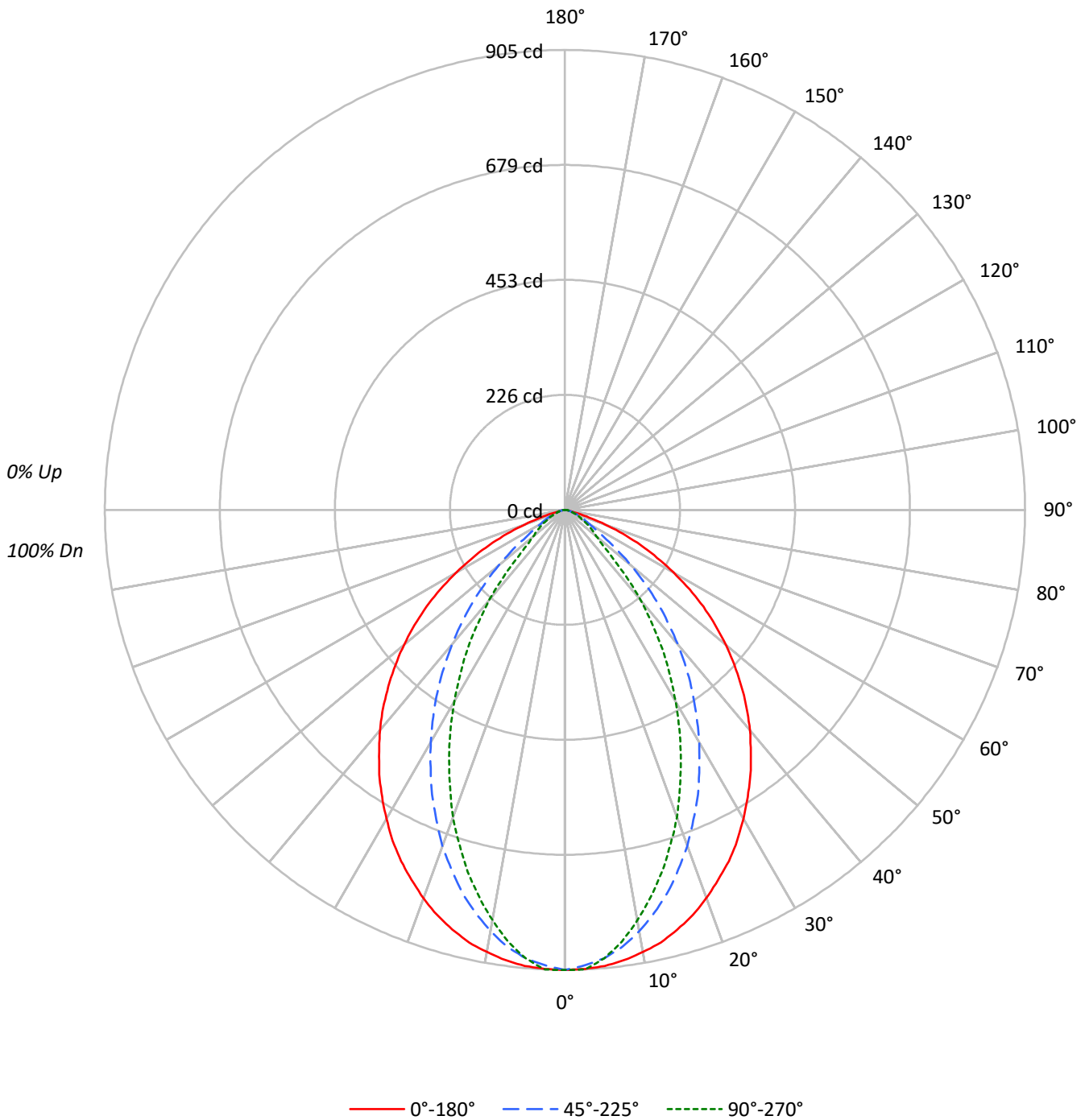
Lumens per Lamp: N/A
Luminaire Lumens: 1309.4 lumens
Efficiency: N/A
Efficacy: 31.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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	97	98	96	95	95	93	92	90				
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80				
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71				
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63				
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57				
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52				
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47				
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43				
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39				
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6234	6234	6234
5°	6226	6122	6122
10°	6177	5888	5734
15°	6093	5560	5256
20°	5959	5159	4720
25°	5794	4702	4099
30°	5580	4198	3458
35°	5347	3675	2804
40°	5087	3102	2078
45°	4783	2487	1254
50°	4424	1824	862
55°	3991	1119	718
60°	3390	760	570
65°	2680	582	450
70°	1691	417	370
75°	551	306	306
80°	182	230	274
85°	95	182	182

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4783 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.7	6.4
10°-20°	221.1	16.9
20°-30°	290.9	22.2
30°-40°	285.8	21.8
40°-50°	216.2	16.5
50°-60°	131.1	10.0
60°-70°	61.9	4.7
70°-80°	16.2	1.2
80°-90°	2.4	0.2
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°	595.7	45.5
0°-40°	881.6	67.3
0°-60°	1228.9	93.9
0°-90°	1309.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1309.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	905	905	905	905	905	
5°	901	898	886	887	886	85
15°	855	832	780	750	737	241
25°	763	705	619	561	540	351
35°	636	551	437	360	334	397
45°	491	386	255	162	129	378
55°	332	228	93	63	60	296
65°	164	84	36	30	28	162
75°	21	14	12	12	12	32
85°	1	1	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	905.4	905.4	905.4	905.4	905.4
2.5°	904.2	904.2	897.3	905.4	905.4
5°	900.8	898.5	885.8	887.0	885.8
7.5°	893.9	889.3	867.4	861.7	857.1
10°	883.5	874.3	842.1	828.3	820.2
12.5°	872.0	855.9	812.2	792.6	780.0
15°	854.8	831.7	780.0	750.1	737.4
17.5°	836.3	803.0	742.0	706.4	690.2
20°	813.3	774.2	704.1	660.3	644.2
22.5°	788.0	742.0	660.3	612.0	590.2
25°	762.7	705.2	618.9	561.4	539.5
27.5°	734.0	668.4	571.8	511.9	487.8
30°	701.8	631.6	528.0	465.9	434.9
32.5°	669.5	593.6	482.0	414.1	383.1
35°	636.2	551.0	437.2	360.1	333.6
37.5°	600.5	510.8	391.1	310.6	279.6
40°	566.0	470.5	345.1	260.0	231.2
42.5°	529.2	430.3	299.1	210.5	178.3
45°	491.2	386.5	255.4	162.2	128.8
47.5°	452.1	347.4	211.7	119.6	96.6
50°	413.0	306.0	170.3	88.6	80.5
52.5°	372.7	265.7	128.8	73.6	70.2
55°	332.5	227.8	93.2	63.3	59.8
57.5°	291.1	186.4	70.2	54.1	50.6
60°	246.2	149.6	55.2	44.9	41.4
62.5°	204.8	117.3	44.9	36.8	34.5
65°	164.5	84.0	35.7	29.9	27.6
67.5°	123.1	56.4	27.6	23.0	23.0
70°	84.0	36.8	20.7	18.4	18.4
72.5°	50.6	21.9	15.0	15.0	15.0
75°	20.7	13.8	11.5	11.5	11.5
77.5°	6.9	8.1	8.1	9.2	9.2
80°	4.6	4.6	5.8	6.9	6.9
82.5°	2.3	3.5	3.5	4.6	4.6
85°	1.2	1.2	2.3	2.3	2.3
87.5°	0.0	0.0	0.0	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)