

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: P1061590

Luminaire Tested: S125RDR-S1270D950-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061590
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-S1270D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

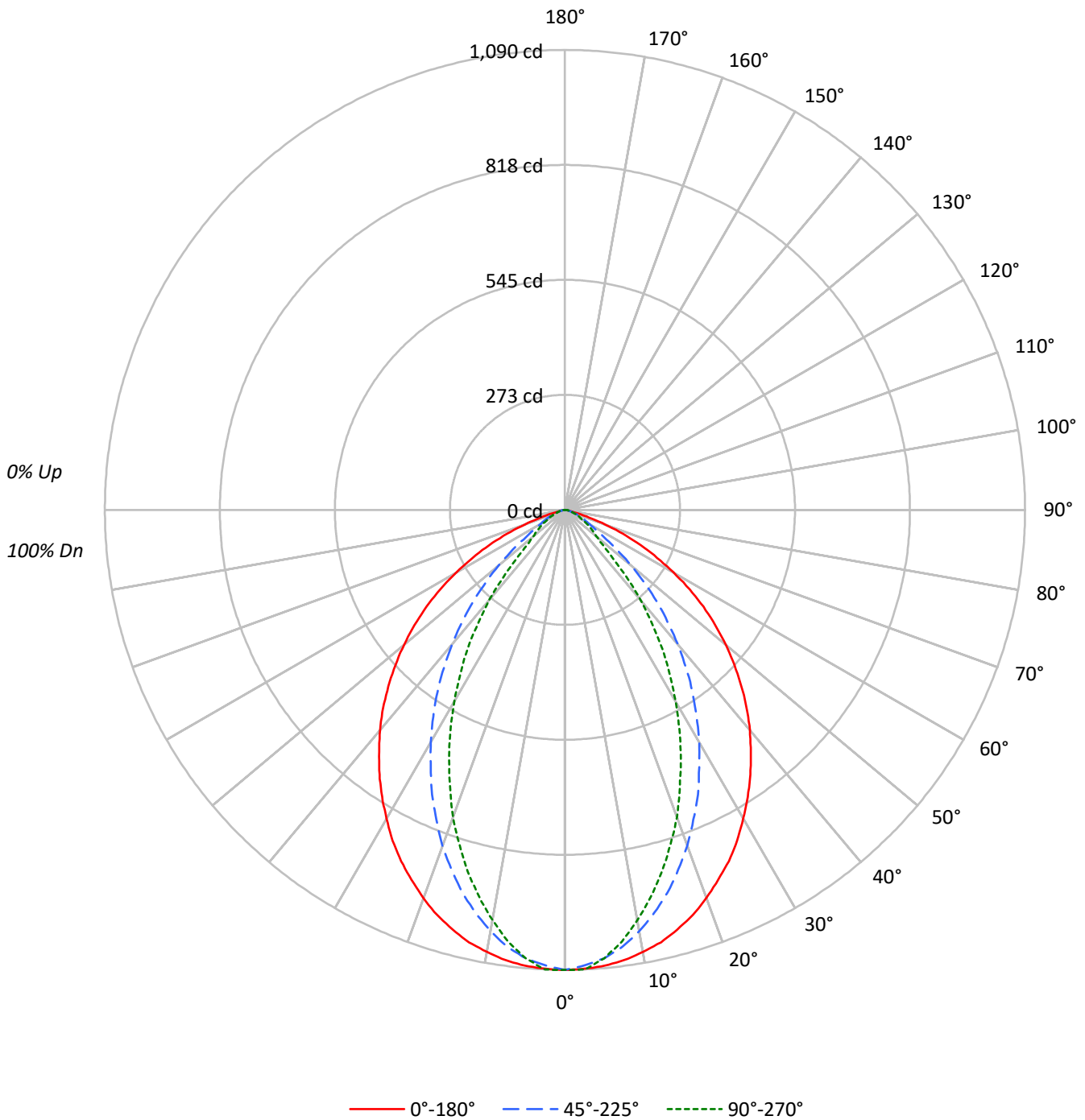
Lumens per Lamp: N/A
Luminaire Lumens: 1576.8 lumens
Efficiency: N/A
Efficacy: 37.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	7507	7507	7507
5°	7498	7373	7373
10°	7439	7090	6906
15°	7338	6695	6330
20°	7177	6213	5684
25°	6978	5662	4937
30°	6719	5056	4164
35°	6439	4425	3377
40°	6126	3735	2503
45°	5761	2995	1511
50°	5328	2196	1039
55°	4806	1347	864
60°	4083	916	687
65°	3227	699	541
70°	2035	501	447
75°	662	370	370
80°	218	274	329
85°	111	221	221

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5761 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.8	6.4
10°-20°	266.3	16.9
20°-30°	350.3	22.2
30°-40°	344.2	21.8
40°-50°	260.4	16.5
50°-60°	157.9	10.0
60°-70°	74.5	4.7
70°-80°	19.5	1.2
80°-90°	2.9	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°	717.4	45.5
0°-40°	1061.6	67.3
0°-60°	1479.9	93.9
0°-90°	1576.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1576.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1090	1090	1090	1090	1090	
5°	1085	1082	1067	1068	1067	103
15°	1029	1002	939	903	888	290
25°	918	849	745	676	650	422
35°	766	664	526	434	402	478
45°	592	466	308	195	155	456
55°	400	274	112	76	72	356
65°	198	101	43	36	33	195
75°	25	17	14	14	14	39
85°	1	1	3	3	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1090.3	1090.3	1090.3	1090.3	1090.3
2.5°	1088.9	1088.9	1080.6	1090.3	1090.3
5°	1084.8	1082.0	1066.8	1068.1	1066.8
7.5°	1076.5	1070.9	1044.6	1037.7	1032.1
10°	1064.0	1052.9	1014.1	997.5	987.8
12.5°	1050.1	1030.7	978.1	954.5	939.3
15°	1029.4	1001.6	939.3	903.3	888.0
17.5°	1007.2	967.0	893.6	850.6	831.2
20°	979.5	932.4	847.9	795.2	775.8
22.5°	949.0	893.6	795.2	737.0	710.7
25°	918.5	849.3	745.3	676.1	649.8
27.5°	883.9	804.9	688.5	616.5	587.4
30°	845.1	760.6	635.9	561.1	523.7
32.5°	806.3	714.9	580.5	498.7	461.3
35°	766.1	663.6	526.5	433.6	401.8
37.5°	723.2	615.1	471.0	374.1	336.7
40°	681.6	566.6	415.6	313.1	278.5
42.5°	637.3	518.1	360.2	253.5	214.7
45°	591.6	465.5	307.6	195.3	155.2
47.5°	544.5	418.4	254.9	144.1	116.4
50°	497.4	368.5	205.0	106.7	97.0
52.5°	448.9	320.0	155.2	88.7	84.5
55°	400.4	274.3	112.2	76.2	72.0
57.5°	350.5	224.4	84.5	65.1	61.0
60°	296.5	180.1	66.5	54.0	49.9
62.5°	246.6	141.3	54.0	44.3	41.6
65°	198.1	101.1	42.9	36.0	33.2
67.5°	148.2	67.9	33.2	27.7	27.7
70°	101.1	44.3	24.9	22.2	22.2
72.5°	61.0	26.3	18.0	18.0	18.0
75°	24.9	16.6	13.9	13.9	13.9
77.5°	8.3	9.7	9.7	11.1	11.1
80°	5.5	5.5	6.9	8.3	8.3
82.5°	2.8	4.2	4.2	5.5	5.5
85°	1.4	1.4	2.8	2.8	2.8
87.5°	0.0	0.0	0.0	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)