

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: P1061644

Luminaire Tested: S125RDR-S375D930-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061644
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-S375D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

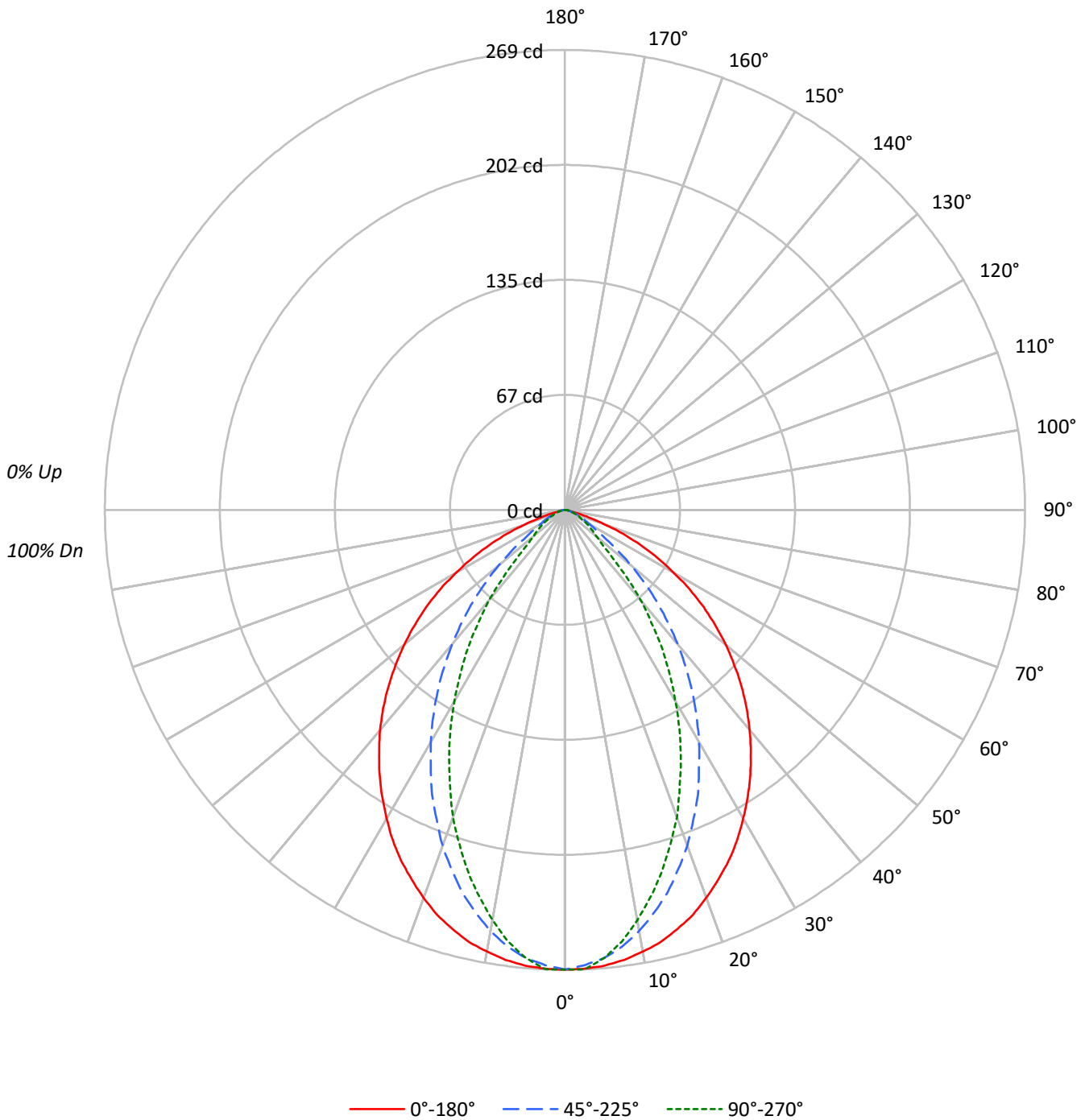
Lumens per Lamp: N/A
Luminaire Lumens: 388.9 lumens
Efficiency: N/A
Efficacy: 31.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
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	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°	1851	1851	1851
5°	1850	1818	1818
10°	1835	1749	1703
15°	1810	1652	1561
20°	1770	1532	1402
25°	1721	1396	1218
30°	1657	1247	1027
35°	1589	1091	833
40°	1511	921	617
45°	1421	739	373
50°	1314	542	256
55°	1186	333	214
60°	1007	226	169
65°	797	173	134
70°	501	125	111
75°	165	90	90
80°	56	67	83
85°	24	55	55

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1421 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.9	6.4
10°-20°	65.7	16.9
20°-30°	86.4	22.2
30°-40°	84.9	21.8
40°-50°	64.2	16.5
50°-60°	38.9	10.0
60°-70°	18.4	4.7
70°-80°	4.8	1.2
80°-90°	0.7	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°	177.0	45.5
0°-40°	261.9	67.3
0°-60°	365.0	93.9
0°-90°	388.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	388.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	269	269	269	269	269	
5°	268	267	263	264	263	25
15°	254	247	232	223	219	72
25°	226	210	184	167	160	104
35°	189	164	130	107	99	118
45°	146	115	76	48	38	112
55°	99	68	28	19	18	88
65°	49	25	11	9	8	48
75°	6	4	3	3	3	10
85°	0	0	1	1	1	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	268.9	268.9	268.9	268.9	268.9
2.5°	268.6	268.6	266.5	268.9	268.9
5°	267.6	266.9	263.1	263.5	263.1
7.5°	265.5	264.1	257.6	255.9	254.6
10°	262.4	259.7	250.1	246.0	243.6
12.5°	259.0	254.2	241.2	235.4	231.7
15°	253.9	247.1	231.7	222.8	219.0
17.5°	248.4	238.5	220.4	209.8	205.0
20°	241.6	230.0	209.1	196.1	191.4
22.5°	234.1	220.4	196.1	181.8	175.3
25°	226.5	209.5	183.8	166.8	160.3
27.5°	218.0	198.5	169.8	152.1	144.9
30°	208.4	187.6	156.8	138.4	129.2
32.5°	198.9	176.3	143.2	123.0	113.8
35°	189.0	163.7	129.8	107.0	99.1
37.5°	178.4	151.7	116.2	92.3	83.0
40°	168.1	139.8	102.5	77.2	68.7
42.5°	157.2	127.8	88.8	62.5	53.0
45°	145.9	114.8	75.9	48.2	38.3
47.5°	134.3	103.2	62.9	35.5	28.7
50°	122.7	90.9	50.6	26.3	23.9
52.5°	110.7	78.9	38.3	21.9	20.8
55°	98.8	67.7	27.7	18.8	17.8
57.5°	86.5	55.4	20.8	16.1	15.0
60°	73.1	44.4	16.4	13.3	12.3
62.5°	60.8	34.9	13.3	10.9	10.3
65°	48.9	24.9	10.6	8.9	8.2
67.5°	36.6	16.7	8.2	6.8	6.8
70°	24.9	10.9	6.2	5.5	5.5
72.5°	15.0	6.5	4.4	4.4	4.4
75°	6.2	4.1	3.4	3.4	3.4
77.5°	2.1	2.4	2.4	2.7	2.7
80°	1.4	1.4	1.7	2.1	2.1
82.5°	0.7	1.0	1.0	1.4	1.4
85°	0.3	0.3	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)