

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: P1061671

Luminaire Tested: S125RDR-S375D950-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061671
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-S375D950-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

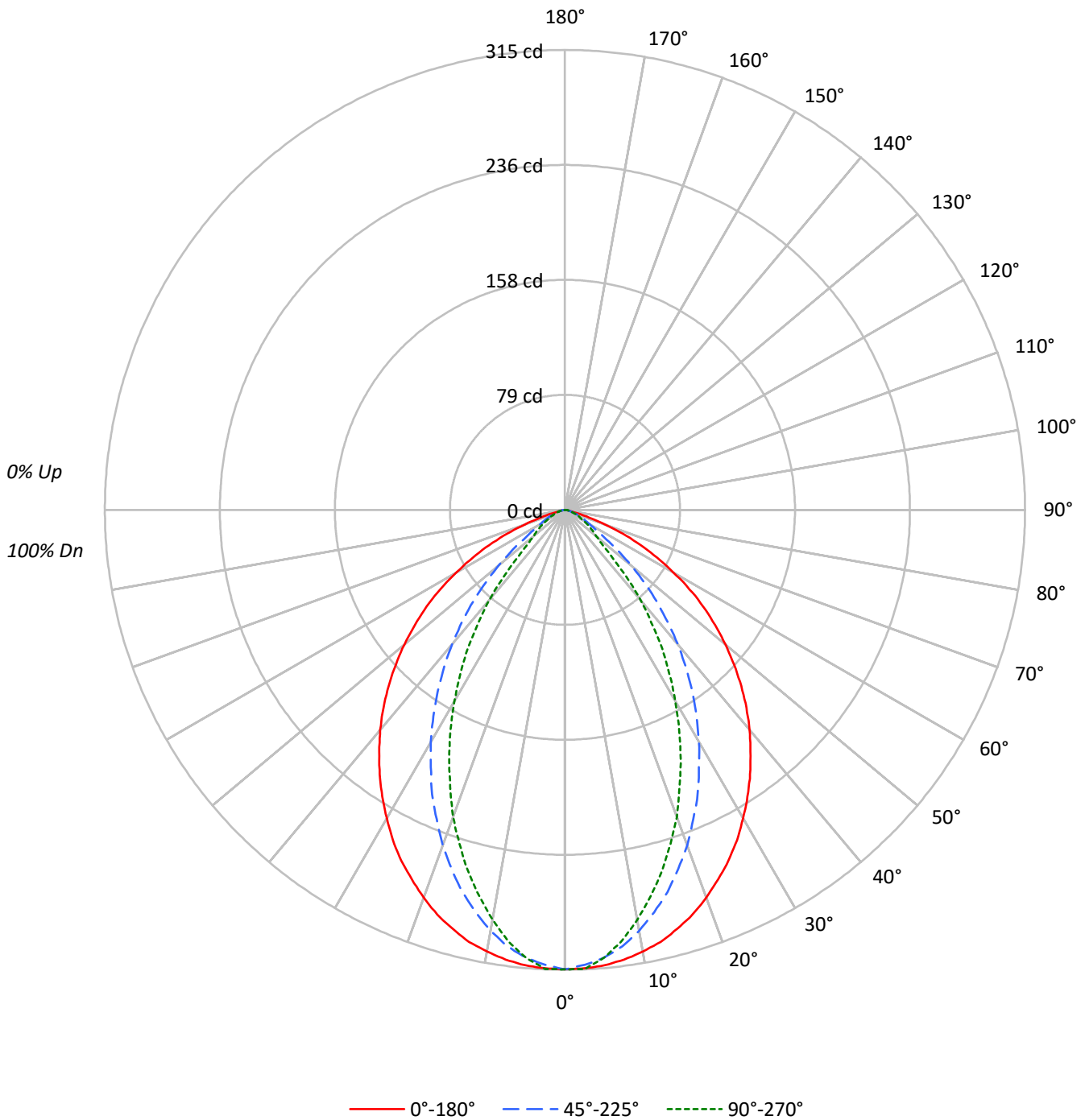
Lumens per Lamp: N/A
Luminaire Lumens: 455.1 lumens
Efficiency: N/A
Efficacy: 36.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1061671

CATALOG NUMBER: S125RDR-S375D950-X4F0-XX-UDD-SVL-B

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°	2167	2167	2167
5°	2164	2128	2128
10°	2147	2046	1993
15°	2118	1932	1827
20°	2071	1793	1641
25°	2014	1634	1424
30°	1939	1459	1201
35°	1858	1277	975
40°	1768	1079	723
45°	1662	865	436
50°	1537	634	300
55°	1388	389	250
60°	1179	264	198
65°	932	202	156
70°	588	145	129
75°	192	106	106
80°	63	79	95
85°	32	63	63

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1662 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.1	6.4
10°-20°	76.9	16.9
20°-30°	101.1	22.2
30°-40°	99.3	21.8
40°-50°	75.2	16.5
50°-60°	45.6	10.0
60°-70°	21.5	4.7
70°-80°	5.6	1.2
80°-90°	0.8	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°	207.1	45.5
0°-40°	306.4	67.3
0°-60°	427.1	93.9
0°-90°	455.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	455.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	315	315	315	315	315	
5°	313	312	308	308	308	30
15°	297	289	271	261	256	84
25°	265	245	215	195	188	122
35°	221	192	152	125	116	138
45°	171	134	89	56	45	131
55°	116	79	32	22	21	103
65°	57	29	12	10	10	56
75°	7	5	4	4	4	11
85°	0	0	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	314.7	314.7	314.7	314.7	314.7
2.5°	314.3	314.3	311.9	314.7	314.7
5°	313.1	312.3	307.9	308.3	307.9
7.5°	310.7	309.1	301.5	299.5	297.9
10°	307.1	303.9	292.7	287.9	285.1
12.5°	303.1	297.5	282.3	275.5	271.1
15°	297.1	289.1	271.1	260.7	256.3
17.5°	290.7	279.1	257.9	245.5	239.9
20°	282.7	269.1	244.7	229.5	223.9
22.5°	273.9	257.9	229.5	212.7	205.1
25°	265.1	245.1	215.1	195.1	187.5
27.5°	255.1	232.3	198.7	177.9	169.5
30°	243.9	219.5	183.5	161.9	151.1
32.5°	232.7	206.3	167.5	143.9	133.1
35°	221.1	191.5	151.9	125.1	116.0
37.5°	208.7	177.5	135.9	108.0	97.2
40°	196.7	163.5	120.0	90.4	80.4
42.5°	183.9	149.5	104.0	73.2	62.0
45°	170.7	134.3	88.8	56.4	44.8
47.5°	157.1	120.7	73.6	41.6	33.6
50°	143.5	106.4	59.2	30.8	28.0
52.5°	129.5	92.4	44.8	25.6	24.4
55°	115.6	79.2	32.4	22.0	20.8
57.5°	101.2	64.8	24.4	18.8	17.6
60°	85.6	52.0	19.2	15.6	14.4
62.5°	71.2	40.8	15.6	12.8	12.0
65°	57.2	29.2	12.4	10.4	9.6
67.5°	42.8	19.6	9.6	8.0	8.0
70°	29.2	12.8	7.2	6.4	6.4
72.5°	17.6	7.6	5.2	5.2	5.2
75°	7.2	4.8	4.0	4.0	4.0
77.5°	2.4	2.8	2.8	3.2	3.2
80°	1.6	1.6	2.0	2.4	2.4
82.5°	0.8	1.2	1.2	1.6	1.6
85°	0.4	0.4	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)