

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: P1061663

Luminaire Tested: S125RDR-S375D940-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-86)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S375D940-X4F0-XX-UDD-SVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

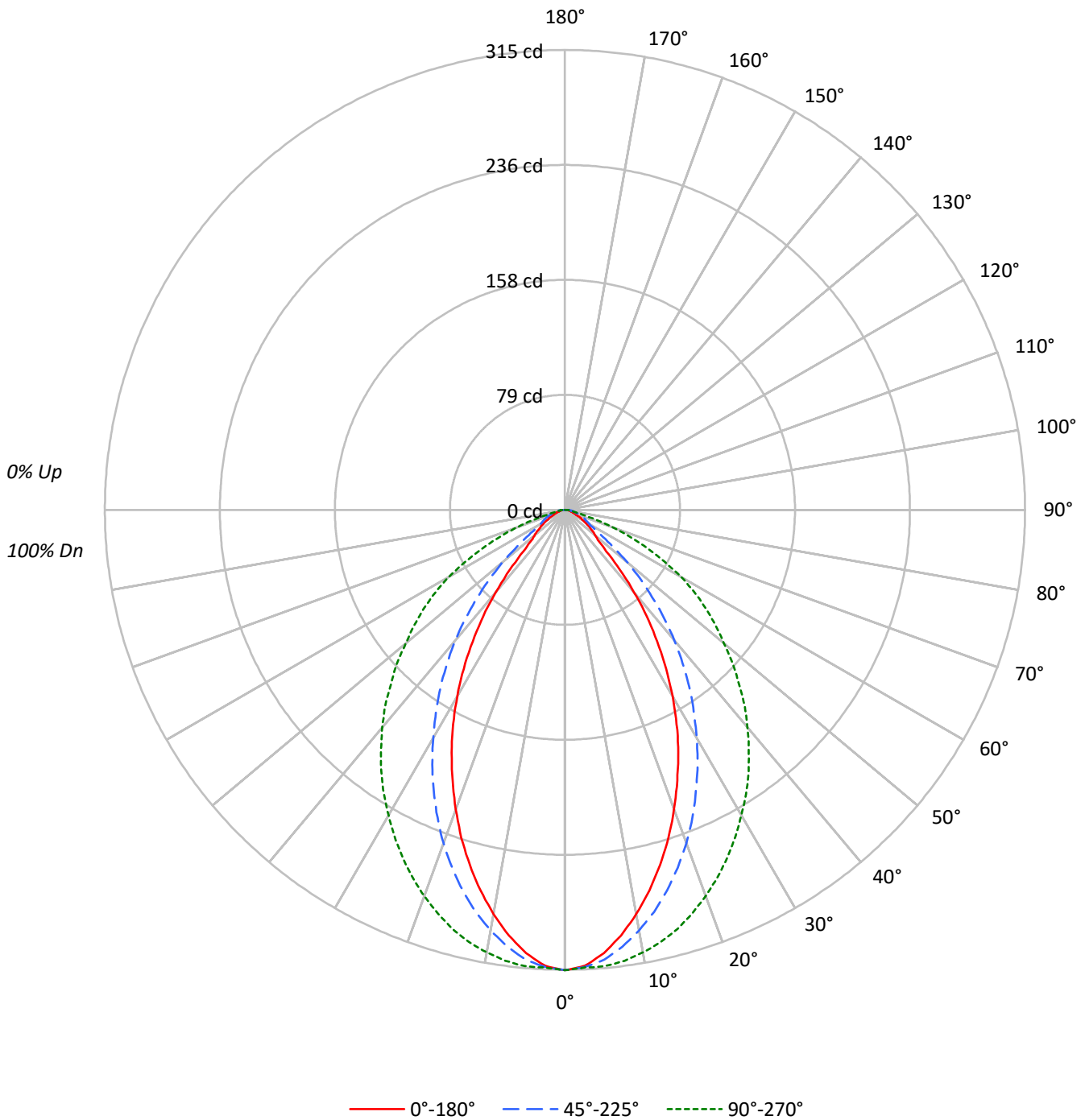
Lumens per Lamp: N/A
Luminaire Lumens: 455.2 lumens
Efficiency: N/A
Efficacy: 36.4 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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: P1061663

CATALOG NUMBER: S125RDR-S375D940-X4F0-XX-UDD-SVL-S

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				100
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79				79
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70				70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63				63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56				56
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51				51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42				42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39				39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2171	2171	2171
5°	2107	2138	2169
10°	1966	2045	2152
15°	1794	1925	2119
20°	1600	1781	2063
25°	1395	1614	1997
30°	1171	1433	1921
35°	925	1248	1842
40°	662	1049	1748
45°	389	823	1639
50°	288	592	1522
55°	242	359	1414
60°	196	263	1261
65°	152	249	1012
70°	129	234	684
75°	120	210	298
80°	119	206	194
85°	150	269	205

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1639 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.0	6.4
10°-20°	76.3	16.8
20°-30°	99.7	21.9
30°-40°	97.1	21.3
40°-50°	72.6	15.9
50°-60°	45.0	9.9
60°-70°	23.6	5.2
70°-80°	8.6	1.9
80°-90°	3.3	0.7
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°	205.1	45.1
0°-40°	302.2	66.4
0°-60°	419.7	92.2
0°-90°	455.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	455.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	315	315	315	315	315	
5°	305	309	309	311	314	28
15°	252	259	270	286	297	70
25°	184	193	212	241	263	84
35°	110	122	148	188	219	68
45°	40	52	84	132	168	34
55°	20	21	30	78	118	18
65°	9	10	15	33	62	10
75°	4	5	8	9	11	5
85°	2	3	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°	315.3	315.3	315.3	315.3	315.3
2.5°	312.6	315.3	313.4	313.4	313.8
5°	304.8	308.9	309.3	311.2	313.8
7.5°	294.0	298.8	301.8	307.4	311.5
10°	281.2	286.8	292.5	301.8	307.8
12.5°	267.0	273.8	282.0	294.7	303.3
15°	251.7	259.2	270.0	286.5	297.3
17.5°	235.6	243.5	256.9	276.7	289.8
20°	218.4	227.0	243.1	265.5	281.6
22.5°	200.8	210.6	228.1	253.6	272.6
25°	183.6	193.0	212.4	241.2	262.9
27.5°	165.7	175.4	196.7	228.5	252.4
30°	147.3	157.8	180.3	215.4	241.6
32.5°	129.0	139.9	164.2	202.0	230.7
35°	110.0	121.9	148.5	188.1	219.2
37.5°	92.0	104.7	132.4	173.9	206.8
40°	73.7	86.8	116.7	160.1	194.5
42.5°	55.7	69.2	100.6	145.9	182.1
45°	40.0	52.4	84.5	132.0	168.3
47.5°	30.7	37.8	69.6	117.8	156.0
50°	26.9	29.2	55.3	104.0	142.1
52.5°	23.6	25.1	41.1	90.5	130.1
55°	20.2	21.3	29.9	77.8	117.8
57.5°	17.2	18.3	22.8	66.2	105.1
60°	14.2	15.3	19.1	54.6	91.6
62.5°	12.0	12.3	17.2	43.8	76.7
65°	9.3	10.1	15.3	32.9	62.1
67.5°	7.9	8.2	13.5	23.6	47.9
70°	6.4	6.7	11.6	16.5	34.0
72.5°	5.6	5.6	9.7	12.0	21.7
75°	4.5	5.2	7.9	8.6	11.2
77.5°	3.7	5.2	6.7	6.4	6.0
80°	3.0	4.9	5.2	5.2	4.9
82.5°	2.6	4.1	4.5	4.1	3.7
85°	1.9	3.4	3.4	3.4	2.6
87.5°	1.5	3.0	2.6	2.6	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)