

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: P1175371

Luminaire Tested: S125RDR-S375D935-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175371
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)
Test Lab: INNOVATION CENTER
Issue Date: 8/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S375D935-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

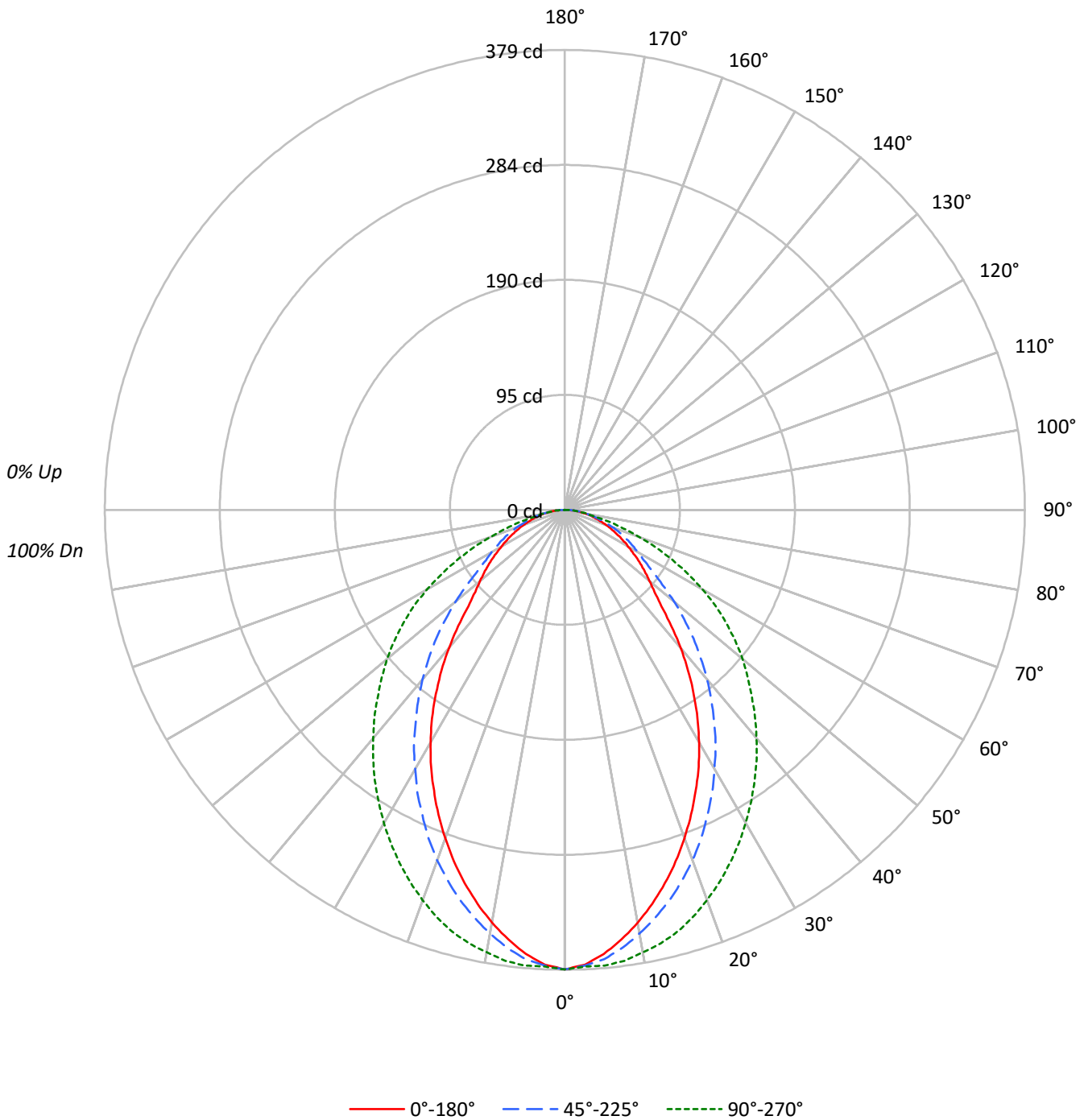
Lumens per Lamp: N/A
Luminaire Lumens: 713.4 lumens
Efficiency: N/A
Efficacy: 57.1 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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: P1175371

CATALOG NUMBER: S125RDR-S375D935-X4F0-XX-UDD-WVL-W

Luminous Intensity Polar Plot





TEST NUMBER: P1175371

CATALOG NUMBER: S125RDR-S375D935-X4F0-XX-UDD-WVL-W

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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2607	2607	2607
5°	2539	2568	2606
10°	2416	2478	2589
15°	2270	2374	2564
20°	2110	2252	2508
25°	1939	2110	2442
30°	1759	1960	2369
35°	1556	1802	2291
40°	1335	1639	2207
45°	1095	1459	2122
50°	975	1253	2049
55°	899	1049	1945
60°	828	956	1801
65°	771	901	1592
70°	719	841	1300
75°	676	779	974
80°	638	714	702
85°	585	711	585

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2122 cd/sqm



TEST NUMBER: P1175371

CATALOG NUMBER: S125RDR-S375D935-X4F0-XX-UDD-WVL-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.1	4.9
10°-20°	94.5	13.2
20°-30°	130.0	18.2
30°-40°	137.9	19.3
40°-50°	120.7	16.9
50°-60°	92.6	13.0
60°-70°	61.7	8.6
70°-80°	31.6	4.4
80°-90°	9.4	1.3
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°	259.5	36.4
0°-40°	397.4	55.7
0°-60°	610.7	85.6
0°-90°	713.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	713.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	379	379	379	379	379	
5°	367	372	372	374	377	34
15°	318	326	333	349	360	89
25°	255	264	278	301	321	117
35°	185	194	214	246	273	115
45°	112	122	150	187	218	89
55°	75	76	87	130	162	67
65°	47	48	55	73	98	47
75°	25	27	29	31	37	27
85°	7	8	9	9	7	8
90°	0	0	0	0	0	



TEST NUMBER: P1175371

CATALOG NUMBER: S125RDR-S375D935-X4F0-XX-UDD-WVL-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	378.7	378.7	378.7	378.7	378.7
2.5°	375.1	379.0	376.1	376.4	376.7
5°	367.4	372.2	371.6	374.2	377.0
7.5°	357.1	362.3	363.9	370.3	374.8
10°	345.5	351.3	354.5	364.2	370.3
12.5°	332.4	339.1	344.3	356.8	365.8
15°	318.5	325.9	333.0	348.8	359.7
17.5°	303.8	311.2	320.5	338.5	351.7
20°	288.0	296.0	307.3	326.6	342.3
22.5°	271.9	280.3	293.2	314.4	332.4
25°	255.2	263.9	277.7	301.2	321.4
27.5°	238.8	246.9	262.9	288.0	310.2
30°	221.2	229.5	246.5	274.2	298.0
32.5°	203.5	211.8	231.4	260.4	285.4
35°	185.1	193.8	214.4	245.9	272.6
37.5°	166.8	175.8	198.6	231.1	259.4
40°	148.5	158.1	182.3	216.3	245.6
42.5°	129.9	140.1	165.5	201.9	232.1
45°	112.5	121.8	149.8	187.1	217.9
47.5°	100.0	105.4	133.1	172.0	204.4
50°	91.0	93.5	117.0	157.5	191.3
52.5°	82.9	84.5	101.3	144.0	176.8
55°	74.9	76.5	87.4	129.9	162.0
57.5°	67.2	68.1	77.1	115.7	147.2
60°	60.1	60.8	69.4	101.6	130.8
62.5°	53.7	54.0	62.0	87.1	114.4
65°	47.3	47.6	55.3	72.6	97.7
67.5°	41.5	41.5	48.9	59.5	81.6
70°	35.7	35.7	41.8	48.2	64.6
72.5°	30.5	31.2	35.4	38.9	50.5
75°	25.4	27.0	29.3	30.9	36.6
77.5°	20.6	22.5	23.5	24.1	24.4
80°	16.1	17.4	18.0	18.3	17.7
82.5°	11.9	12.9	13.2	13.2	12.2
85°	7.4	8.4	9.0	8.7	7.4
87.5°	3.5	4.8	5.1	4.5	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)