

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: P1061655

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S375D935-X4F0-XX-UDD-SVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

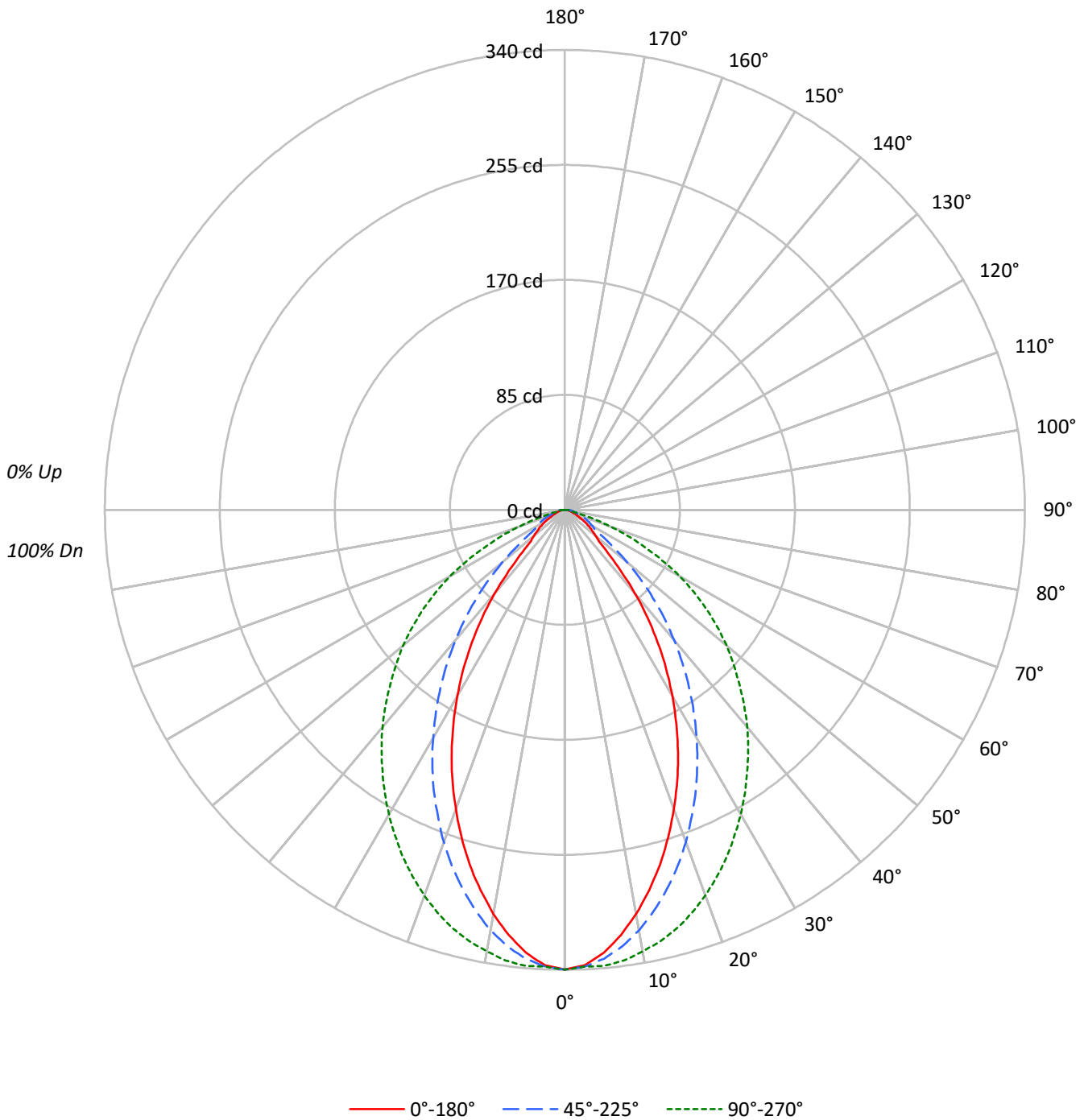
Lumens per Lamp: N/A
Luminaire Lumens: 492.3 lumens
Efficiency: N/A
Efficacy: 39.4 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

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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				100
1	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89				89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79				79
3	96	88	81	76	94	86	80	76	84	78	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	62				62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56				56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	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	40	39				39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2340	2340	2340
5°	2272	2302	2339
10°	2121	2207	2318
15°	1936	2072	2283
20°	1726	1916	2223
25°	1503	1740	2151
30°	1263	1548	2067
35°	1004	1345	1976
40°	724	1130	1886
45°	429	897	1776
50°	317	638	1671
55°	269	395	1531
60°	219	318	1348
65°	171	295	1065
70°	145	254	713
75°	136	221	287
80°	143	230	202
85°	174	340	229

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1776 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.3	6.4
10°-20°	82.3	16.7
20°-30°	107.5	21.8
30°-40°	104.7	21.3
40°-50°	78.6	16.0
50°-60°	49.3	10.0
60°-70°	25.7	5.2
70°-80°	9.3	1.9
80°-90°	3.7	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°	221.1	44.9
0°-40°	325.9	66.2
0°-60°	453.7	92.2
0°-90°	492.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	492.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	340	340	340	340	340	
5°	329	333	333	336	338	31
15°	272	280	291	309	320	76
25°	198	209	229	260	283	90
35°	120	132	160	203	235	74
45°	44	57	92	142	182	37
55°	22	24	33	86	128	20
65°	10	11	18	35	65	11
75°	5	7	8	9	11	6
85°	2	4	4	4	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	339.9	339.9	339.9	339.9	339.9
2.5°	337.0	340.2	338.0	338.0	338.0
5°	328.7	333.0	333.0	335.5	338.4
7.5°	317.1	322.2	325.4	331.5	335.9
10°	303.4	309.5	315.7	325.8	331.5
12.5°	287.8	295.1	303.7	317.8	326.5
15°	271.6	279.5	290.7	308.8	320.3
17.5°	253.9	263.3	276.6	298.3	312.4
20°	235.5	244.9	261.5	286.0	303.4
22.5°	217.1	227.2	245.2	273.0	293.6
25°	197.9	208.8	229.0	260.0	283.2
27.5°	178.4	189.6	212.0	246.7	271.6
30°	158.9	170.5	194.7	232.2	260.0
32.5°	139.4	151.7	177.3	217.4	247.8
35°	119.5	132.2	160.0	202.6	235.1
37.5°	100.4	113.0	142.7	187.4	222.5
40°	80.5	94.3	125.7	172.3	209.8
42.5°	61.0	75.1	108.7	157.1	196.1
45°	44.1	57.1	92.1	142.3	182.4
47.5°	33.9	41.2	75.1	127.1	169.0
50°	29.6	31.8	59.6	113.0	156.0
52.5°	25.6	27.1	44.8	100.0	141.9
55°	22.4	23.5	32.9	86.0	127.5
57.5°	18.8	20.2	26.0	72.2	112.7
60°	15.9	16.6	23.1	59.6	97.9
62.5°	13.0	13.7	20.6	47.0	81.3
65°	10.5	11.2	18.1	34.7	65.4
67.5°	8.7	9.0	15.2	24.6	50.2
70°	7.2	7.6	12.6	17.0	35.4
72.5°	6.1	7.2	10.1	12.3	22.4
75°	5.1	6.9	8.3	8.7	10.8
77.5°	4.3	6.5	6.9	6.9	6.1
80°	3.6	5.4	5.8	5.4	5.1
82.5°	2.9	4.3	4.7	4.7	4.0
85°	2.2	3.6	4.3	4.0	2.9
87.5°	1.4	3.3	3.6	3.3	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)