

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: P1061670

Luminaire Tested: S125RDR-S375D950-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S375D950-X4F0-XX-UDD-BVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

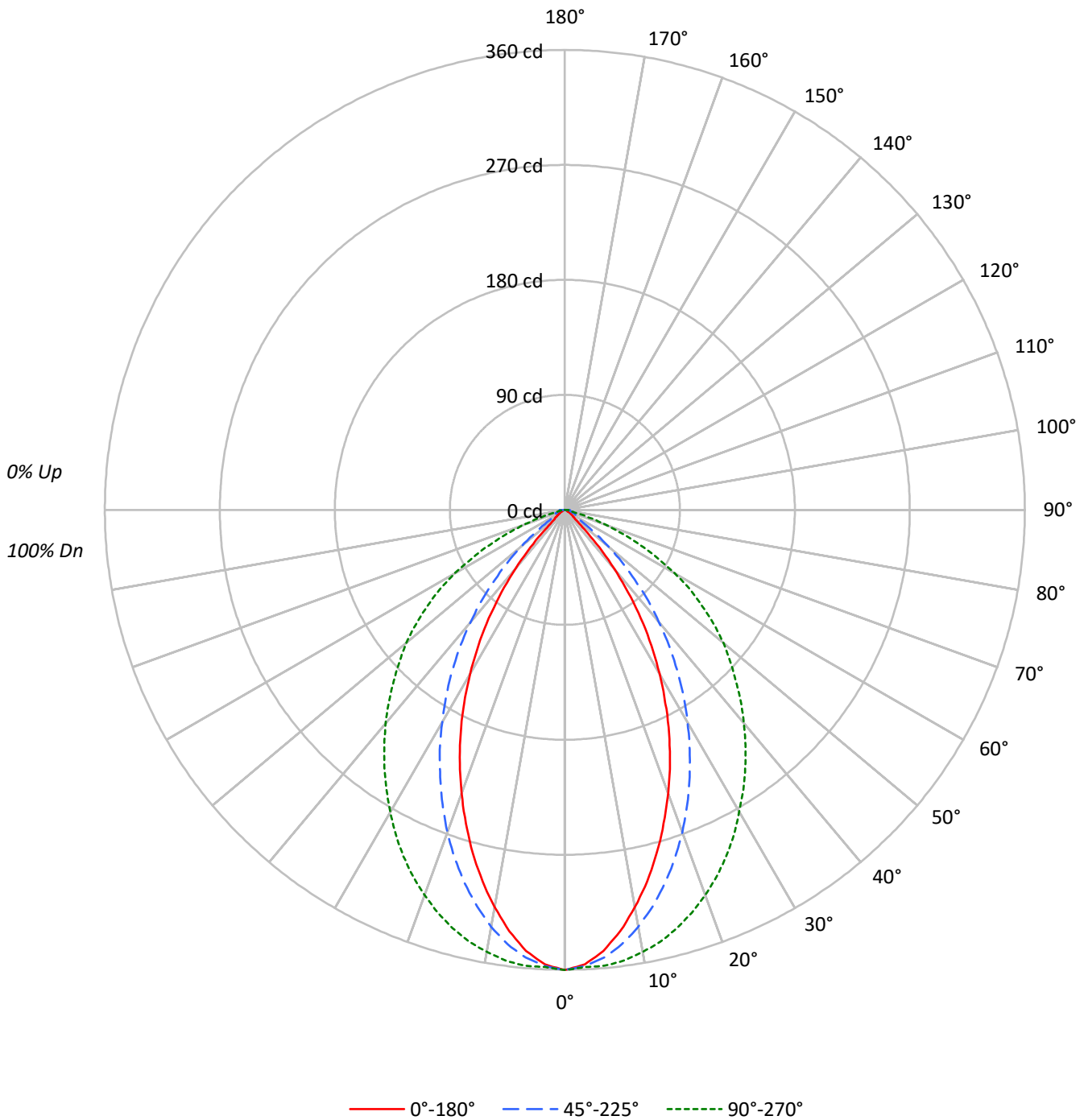
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 466.0 lumens
Efficiency: N/A
Efficacy: 37.3 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
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	98	98	96	95	95	93	92	90
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2480	2480	2480
5°	2396	2431	2476
10°	2208	2317	2457
15°	1983	2157	2416
20°	1730	1968	2352
25°	1465	1754	2272
30°	1177	1527	2170
35°	872	1289	2069
40°	539	1029	1960
45°	210	752	1843
50°	99	471	1736
55°	72	202	1576
60°	50	143	1367
65°	33	150	1062
70°	32	137	668
75°	43	138	213
80°	63	159	143
85°	95	316	221

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1843 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.0	7.1
10°-20°	85.6	18.4
20°-30°	109.0	23.4
30°-40°	101.5	21.8
40°-50°	69.8	15.0
50°-60°	39.5	8.5
60°-70°	18.7	4.0
70°-80°	5.8	1.3
80°-90°	3.0	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°	227.6	48.8
0°-40°	329.1	70.6
0°-60°	438.5	94.1
0°-90°	466.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	466.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	360	360	360	360	360	
5°	347	351	352	355	358	32
15°	278	287	303	325	339	77
25°	193	205	231	270	299	88
35°	104	118	153	206	246	64
45°	22	34	77	140	189	20
55°	6	7	17	80	131	6
65°	2	2	9	29	65	2
75°	2	4	5	6	8	2
85°	1	3	4	4	3	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	360.2	360.2	360.2	360.2	360.2
2.5°	356.2	359.8	357.4	357.8	358.2
5°	346.6	351.4	351.8	355.0	358.2
7.5°	332.6	338.6	343.0	350.6	355.8
10°	315.8	323.0	331.4	343.8	351.4
12.5°	297.8	306.2	317.8	335.4	346.2
15°	278.2	287.4	302.6	325.4	339.0
17.5°	257.3	267.8	286.2	313.4	330.6
20°	236.1	247.3	268.6	299.8	321.0
22.5°	214.9	226.5	250.1	285.0	310.6
25°	192.9	205.3	230.9	269.8	299.0
27.5°	170.5	183.3	211.7	254.1	286.6
30°	148.1	161.7	192.1	238.1	273.0
32.5°	126.1	139.7	172.9	222.1	259.8
35°	103.7	118.1	153.3	205.7	246.1
37.5°	81.2	96.9	134.1	188.9	232.1
40°	60.0	74.8	114.5	172.5	218.1
42.5°	40.0	54.4	96.9	156.1	203.7
45°	21.6	34.4	77.2	139.7	189.3
47.5°	11.6	18.4	60.4	123.7	175.3
50°	9.2	10.4	44.0	108.9	162.1
52.5°	7.6	8.4	28.8	94.9	146.9
55°	6.0	6.8	16.8	80.4	131.3
57.5°	4.8	5.6	10.8	66.8	116.1
60°	3.6	4.4	10.4	53.6	99.3
62.5°	2.8	3.2	9.6	41.2	81.6
65°	2.0	2.4	9.2	28.8	65.2
67.5°	1.6	2.0	8.4	18.4	48.8
70°	1.6	1.6	6.8	12.0	33.2
72.5°	1.6	2.8	6.0	8.0	20.0
75°	1.6	3.6	5.2	5.6	8.0
77.5°	1.6	4.0	4.4	4.4	4.4
80°	1.6	3.6	4.0	4.0	3.6
82.5°	1.6	3.2	3.6	4.0	3.2
85°	1.2	3.2	4.0	3.6	2.8
87.5°	1.2	3.2	3.6	3.2	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)