

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: P1061659

Luminaire Tested: S125RDR-S375D940-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-48)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S375D940-X4F0-XX-UDD-BVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

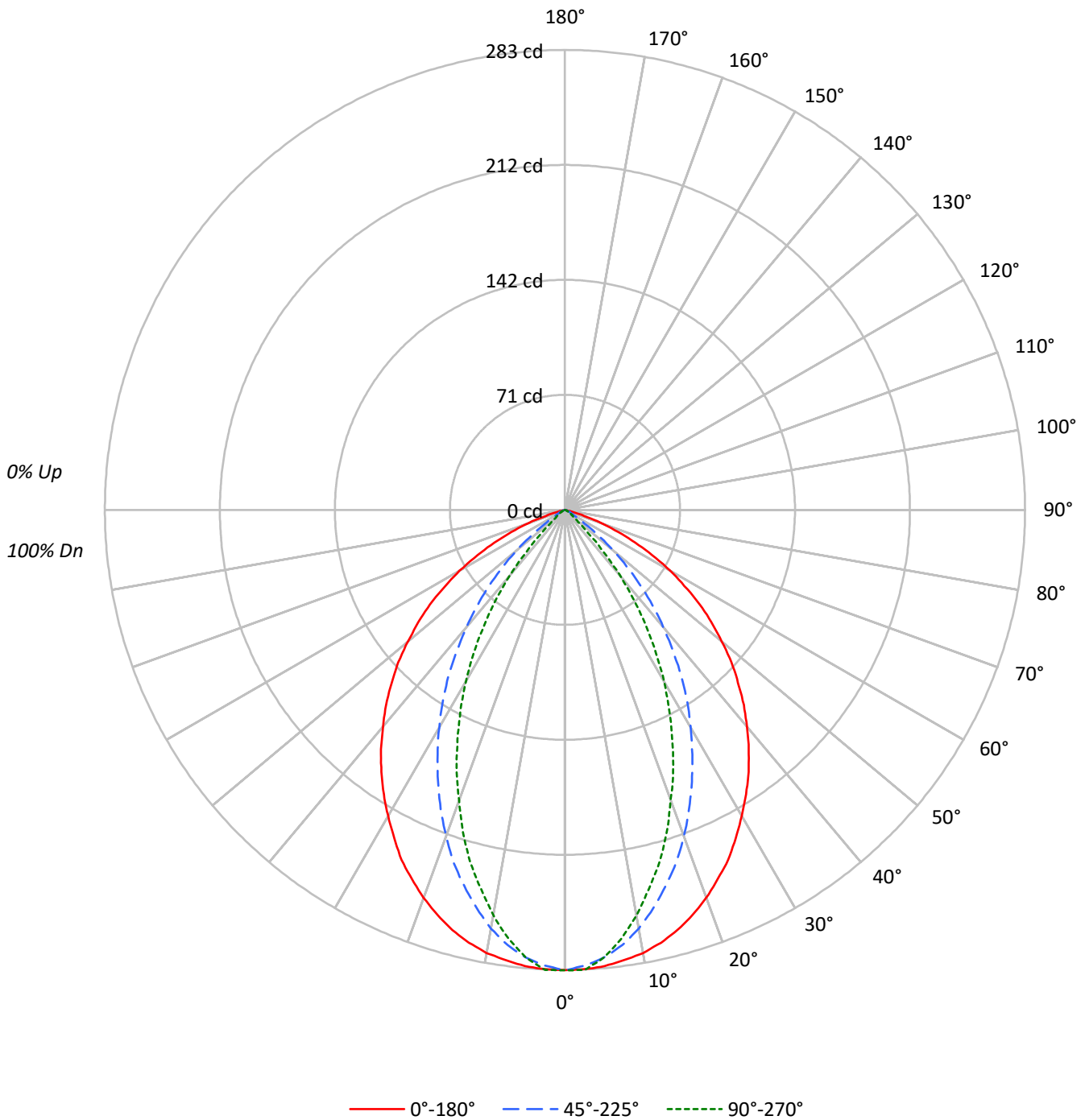
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 365.9 lumens
Efficiency: N/A
Efficacy: 29.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
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	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1951	1951	1951
5°	1948	1911	1911
10°	1936	1829	1772
15°	1907	1707	1601
20°	1862	1567	1394
25°	1806	1402	1187
30°	1729	1230	968
35°	1655	1049	725
40°	1565	847	470
45°	1466	641	204
50°	1349	408	76
55°	1216	179	54
60°	1029	77	36
65°	779	49	18
70°	473	22	8
75°	98	11	11
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1466 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.1	7.1
10°-20°	68.1	18.6
20°-30°	87.4	23.9
30°-40°	82.3	22.5
40°-50°	57.5	15.7
50°-60°	30.7	8.4
60°-70°	12.3	3.3
70°-80°	1.6	0.4
80°-90°	0.0	0.0
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°	181.6	49.6
0°-40°	263.9	72.1
0°-60°	352.1	96.2
0°-90°	365.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	365.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	283	283	283	283	283	
5°	282	281	276	277	276	27
15°	268	259	240	228	225	75
25°	238	217	185	164	156	109
35°	197	166	125	96	86	123
45°	151	113	66	32	21	116
55°	101	62	15	5	4	90
65°	48	19	3	2	1	48
75°	4	1	0	0	0	7
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	283.3	283.3	283.3	283.3	283.3
2.5°	282.9	283.3	280.7	282.9	283.3
5°	281.8	281.0	276.5	277.3	276.5
7.5°	279.5	277.7	270.2	267.6	266.1
10°	276.9	272.8	261.6	256.0	253.4
12.5°	272.8	266.8	251.1	242.5	238.8
15°	267.6	259.0	239.5	228.3	224.6
17.5°	261.2	250.0	227.6	213.8	208.2
20°	254.1	239.2	213.8	197.3	190.2
22.5°	245.9	228.7	199.6	181.2	174.1
25°	237.7	216.7	184.6	164.4	156.2
27.5°	227.6	204.4	169.7	148.0	139.0
30°	217.5	192.1	154.7	131.2	121.8
32.5°	207.4	179.0	139.8	113.6	104.3
35°	196.9	165.6	124.8	96.4	86.3
37.5°	185.7	152.1	108.7	80.0	69.5
40°	174.1	139.0	94.2	63.9	52.3
42.5°	162.9	125.9	79.6	48.2	35.5
45°	150.6	112.9	65.8	31.8	20.9
47.5°	139.0	100.2	51.6	18.3	10.8
50°	125.9	87.1	38.1	9.7	7.1
52.5°	113.6	74.4	25.4	6.4	5.6
55°	101.3	62.0	14.9	5.2	4.5
57.5°	87.1	50.1	8.2	4.1	3.4
60°	74.7	39.2	5.6	3.0	2.6
62.5°	60.5	28.8	4.1	2.2	1.9
65°	47.8	19.1	3.0	1.5	1.1
67.5°	35.5	11.2	1.9	0.7	0.7
70°	23.5	6.0	1.1	0.4	0.4
72.5°	12.3	2.6	0.7	0.4	0.4
75°	3.7	1.1	0.4	0.4	0.4
77.5°	0.0	0.4	0.0	0.0	0.4
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)