

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: P1061596

Luminaire Tested: S125RDR-S375D830-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061596  
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-S375D830-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: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

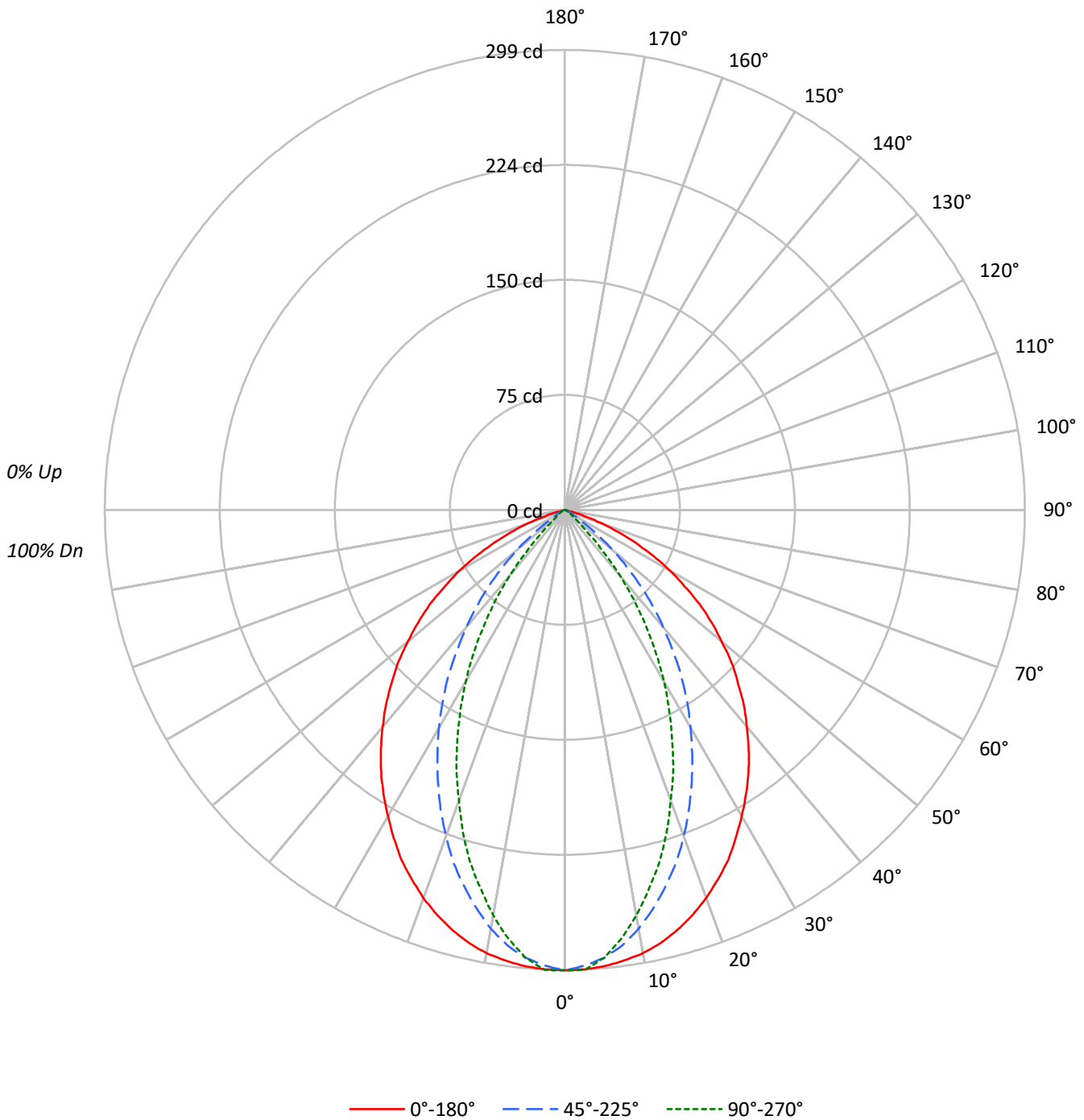
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 386.8 lumens  
Efficiency: N/A  
Efficacy: 30.9 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	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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91			91	
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82			82	
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73			73	
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66			66	
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60			60	
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54			54	
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50			50	
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46			46	
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42	
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2061	2061	2061
5°	2058	2020	2020
10°	2046	1933	1872
15°	2016	1805	1692
20°	1968	1655	1473
25°	1908	1482	1254
30°	1828	1300	1024
35°	1750	1109	767
40°	1655	894	497
45°	1550	677	215
50°	1426	432	80
55°	1284	190	56
60°	1088	81	39
65°	824	52	20
70°	501	24	8
75°	106	11	11
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1550 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.6	7.1
10°-20°	71.9	18.6
20°-30°	92.4	23.9
30°-40°	87.0	22.5
40°-50°	60.8	15.7
50°-60°	32.5	8.4
60°-70°	13.0	3.4
70°-80°	1.7	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°	191.9	49.6
0°-40°	278.9	72.1
0°-60°	372.2	96.2
0°-90°	386.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	386.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	299	299	299	299	299	
5°	298	297	292	293	292	28
15°	283	274	253	241	237	80
25°	251	229	195	174	165	115
35°	208	175	132	102	91	130
45°	159	119	70	34	22	123
55°	107	66	16	6	5	95
65°	51	20	3	2	1	50
75°	4	1	0	0	0	8
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°	299.4	299.4	299.4	299.4	299.4
2.5°	299.0	299.4	296.6	299.0	299.4
5°	297.8	297.0	292.3	293.1	292.3
7.5°	295.5	293.5	285.6	282.8	281.2
10°	292.7	288.4	276.5	270.6	267.8
12.5°	288.4	282.0	265.4	256.4	252.4
15°	282.8	273.7	253.2	241.3	237.4
17.5°	276.1	264.3	240.6	225.9	220.0
20°	268.6	252.8	225.9	208.6	201.1
22.5°	259.9	241.7	210.9	191.6	184.1
25°	251.2	229.1	195.1	173.8	165.1
27.5°	240.6	216.1	179.3	156.4	146.9
30°	229.9	203.0	163.5	138.6	128.8
32.5°	219.2	189.2	147.7	120.1	110.2
35°	208.2	175.0	131.9	101.9	91.2
37.5°	196.3	160.8	114.9	84.5	73.5
40°	184.1	146.9	99.5	67.5	55.3
42.5°	172.2	133.1	84.1	51.0	37.5
45°	159.2	119.3	69.5	33.6	22.1
47.5°	146.9	105.9	54.5	19.4	11.5
50°	133.1	92.0	40.3	10.3	7.5
52.5°	120.1	78.6	26.9	6.7	5.9
55°	107.0	65.6	15.8	5.5	4.7
57.5°	92.0	52.9	8.7	4.3	3.6
60°	79.0	41.5	5.9	3.2	2.8
62.5°	64.0	30.4	4.3	2.4	2.0
65°	50.6	20.1	3.2	1.6	1.2
67.5°	37.5	11.9	2.0	0.8	0.8
70°	24.9	6.3	1.2	0.4	0.4
72.5°	13.0	2.8	0.8	0.4	0.4
75°	4.0	1.2	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)