

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: P1061617

Luminaire Tested: S125RDR-S375D840-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061617  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S375D840-X4F0-XX-UDD-SVL-B  
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

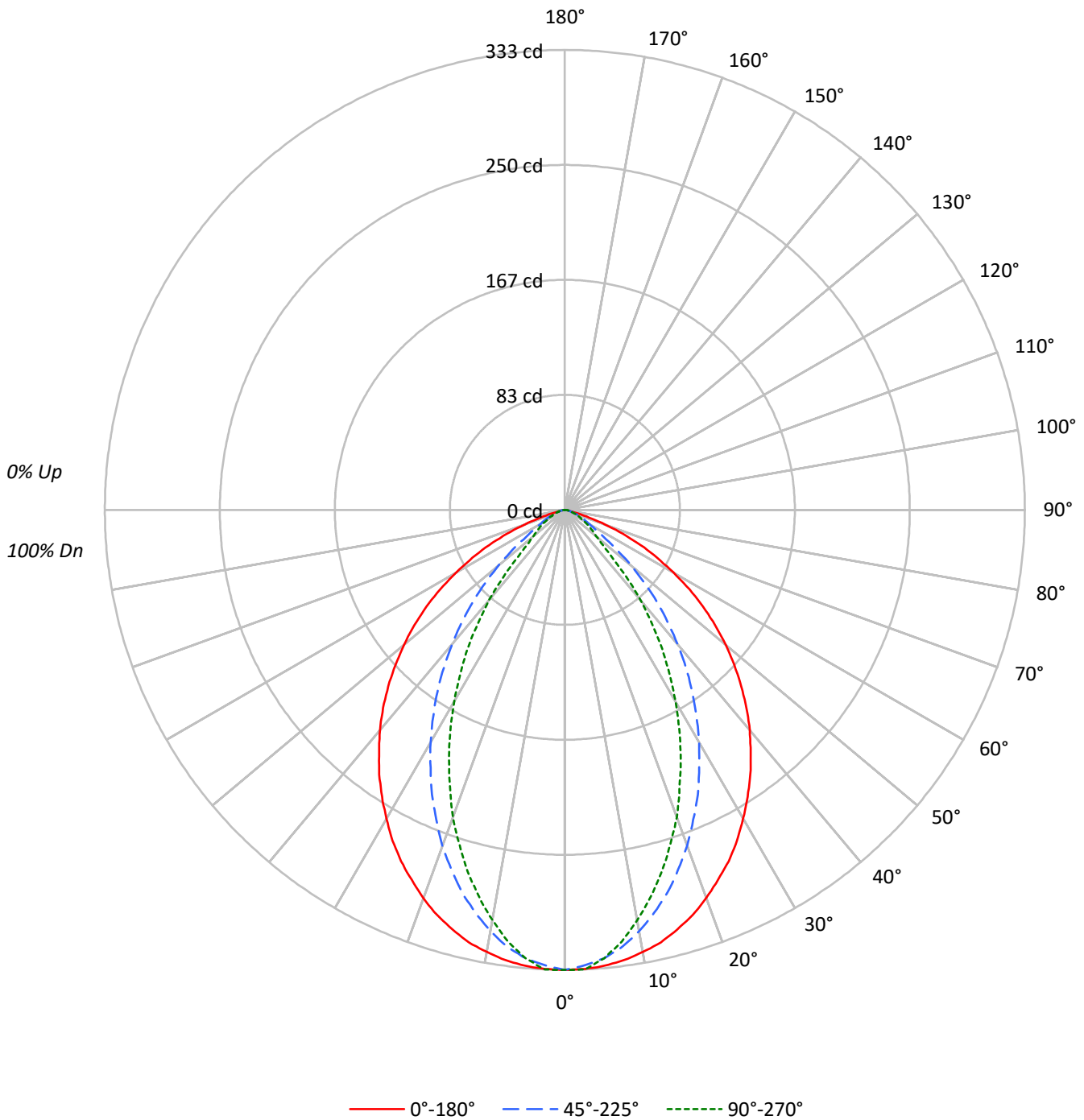
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 481.7 lumens  
Efficiency: N/A  
Efficacy: 38.5 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01  
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	97	98	96	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36

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

	0°	45°	90°
0°	2293	2293	2293
5°	2290	2252	2252
10°	2273	2166	2110
15°	2242	2046	1934
20°	2192	1898	1737
25°	2132	1730	1508
30°	2053	1545	1272
35°	1968	1352	1031
40°	1871	1141	765
45°	1760	915	462
50°	1627	671	317
55°	1468	412	264
60°	1248	280	209
65°	986	213	166
70°	622	153	137
75°	202	112	112
80°	67	83	99
85°	32	63	63

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1760 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.8	6.4
10°-20°	81.4	16.9
20°-30°	107.0	22.2
30°-40°	105.2	21.8
40°-50°	79.6	16.5
50°-60°	48.2	10.0
60°-70°	22.8	4.7
70°-80°	5.9	1.2
80°-90°	0.9	0.2
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°	219.2	45.5
0°-40°	324.3	67.3
0°-60°	452.1	93.9
0°-90°	481.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	481.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	333	333	333	333	333	
5°	331	331	326	326	326	31
15°	314	306	287	276	271	89
25°	281	260	228	206	198	129
35°	234	203	161	132	123	146
45°	181	142	94	60	47	139
55°	122	84	34	23	22	109
65°	60	31	13	11	10	60
75°	8	5	4	4	4	12
85°	0	0	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	333.1	333.1	333.1	333.1	333.1
2.5°	332.7	332.7	330.1	333.1	333.1
5°	331.4	330.6	325.9	326.3	325.9
7.5°	328.9	327.2	319.1	317.0	315.3
10°	325.1	321.7	309.8	304.7	301.8
12.5°	320.8	314.9	298.8	291.6	287.0
15°	314.5	306.0	287.0	276.0	271.3
17.5°	307.7	295.4	273.0	259.9	253.9
20°	299.2	284.8	259.0	242.9	237.0
22.5°	289.9	273.0	242.9	225.2	217.1
25°	280.6	259.5	227.7	206.5	198.5
27.5°	270.0	245.9	210.4	188.3	179.5
30°	258.2	232.4	194.3	171.4	160.0
32.5°	246.3	218.4	177.3	152.4	140.9
35°	234.1	202.7	160.8	132.5	122.7
37.5°	220.9	187.9	143.9	114.3	102.8
40°	208.2	173.1	127.0	95.7	85.1
42.5°	194.7	158.3	110.0	77.5	65.6
45°	180.7	142.2	94.0	59.7	47.4
47.5°	166.3	127.8	77.9	44.0	35.6
50°	151.9	112.6	62.6	32.6	29.6
52.5°	137.1	97.8	47.4	27.1	25.8
55°	122.3	83.8	34.3	23.3	22.0
57.5°	107.1	68.6	25.8	19.9	18.6
60°	90.6	55.0	20.3	16.5	15.2
62.5°	75.3	43.2	16.5	13.5	12.7
65°	60.5	30.9	13.1	11.0	10.2
67.5°	45.3	20.7	10.2	8.5	8.5
70°	30.9	13.5	7.6	6.8	6.8
72.5°	18.6	8.0	5.5	5.5	5.5
75°	7.6	5.1	4.2	4.2	4.2
77.5°	2.5	3.0	3.0	3.4	3.4
80°	1.7	1.7	2.1	2.5	2.5
82.5°	0.8	1.3	1.3	1.7	1.7
85°	0.4	0.4	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)