

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: P1061635

Luminaire Tested: S125RDR-S375D927-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061635
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-S375D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

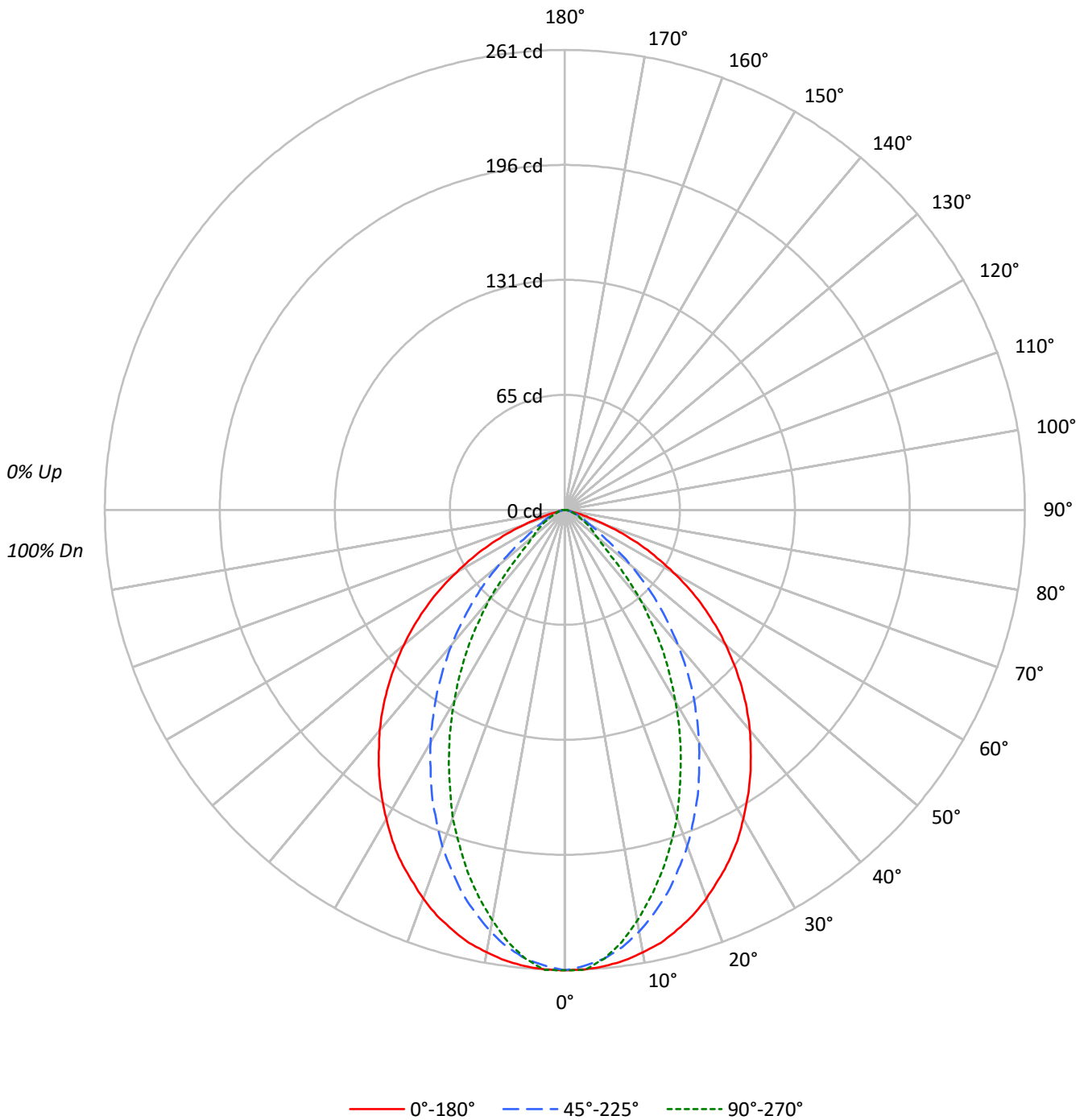
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 377.9 lumens
Efficiency: N/A
Efficacy: 30.2 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	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°	1799	1799	1799
5°	1797	1767	1767
10°	1783	1699	1655
15°	1759	1605	1517
20°	1720	1489	1362
25°	1672	1357	1183
30°	1610	1212	998
35°	1543	1061	809
40°	1469	895	600
45°	1381	718	362
50°	1277	526	249
55°	1152	323	208
60°	979	219	165
65°	774	168	130
70°	487	121	107
75°	160	88	88
80°	52	67	79
85°	24	55	55

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1381 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.2	6.4
10°-20°	63.8	16.9
20°-30°	83.9	22.2
30°-40°	82.5	21.8
40°-50°	62.4	16.5
50°-60°	37.8	10.0
60°-70°	17.9	4.7
70°-80°	4.7	1.2
80°-90°	0.7	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°	171.9	45.5
0°-40°	254.4	67.3
0°-60°	354.7	93.9
0°-90°	377.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	377.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	261	261	261	261	261	
5°	260	259	256	256	256	25
15°	247	240	225	216	213	69
25°	220	204	179	162	156	101
35°	184	159	126	104	96	115
45°	142	112	74	47	37	109
55°	96	66	27	18	17	85
65°	48	24	10	9	8	47
75°	6	4	3	3	3	9
85°	0	0	1	1	1	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	261.3	261.3	261.3	261.3	261.3
2.5°	261.0	261.0	259.0	261.3	261.3
5°	260.0	259.3	255.7	256.0	255.7
7.5°	258.0	256.6	250.3	248.7	247.3
10°	255.0	252.3	243.0	239.0	236.7
12.5°	251.7	247.0	234.4	228.8	225.1
15°	246.7	240.0	225.1	216.5	212.8
17.5°	241.4	231.7	214.1	203.9	199.2
20°	234.7	223.4	203.2	190.6	185.9
22.5°	227.4	214.1	190.6	176.6	170.3
25°	220.1	203.5	178.6	162.0	155.7
27.5°	211.8	192.9	165.0	147.7	140.8
30°	202.5	182.3	152.4	134.5	125.5
32.5°	193.2	171.3	139.1	119.5	110.6
35°	183.6	159.0	126.2	103.9	96.3
37.5°	173.3	147.4	112.9	89.6	80.7
40°	163.4	135.8	99.6	75.0	66.7
42.5°	152.7	124.2	86.3	60.8	51.5
45°	141.8	111.6	73.7	46.8	37.2
47.5°	130.5	100.3	61.1	34.5	27.9
50°	119.2	88.3	49.1	25.6	23.2
52.5°	107.6	76.7	37.2	21.2	20.3
55°	96.0	65.7	26.9	18.3	17.3
57.5°	84.0	53.8	20.3	15.6	14.6
60°	71.1	43.2	15.9	12.9	12.0
62.5°	59.1	33.9	12.9	10.6	10.0
65°	47.5	24.2	10.3	8.6	8.0
67.5°	35.5	16.3	8.0	6.6	6.6
70°	24.2	10.6	6.0	5.3	5.3
72.5°	14.6	6.3	4.3	4.3	4.3
75°	6.0	4.0	3.3	3.3	3.3
77.5°	2.0	2.3	2.3	2.7	2.7
80°	1.3	1.3	1.7	2.0	2.0
82.5°	0.7	1.0	1.0	1.3	1.3
85°	0.3	0.3	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)