

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: P1061647

Luminaire Tested: S125RDR-S375D930-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061647
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-46)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S375D930-X4F0-XX-UDD-WVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

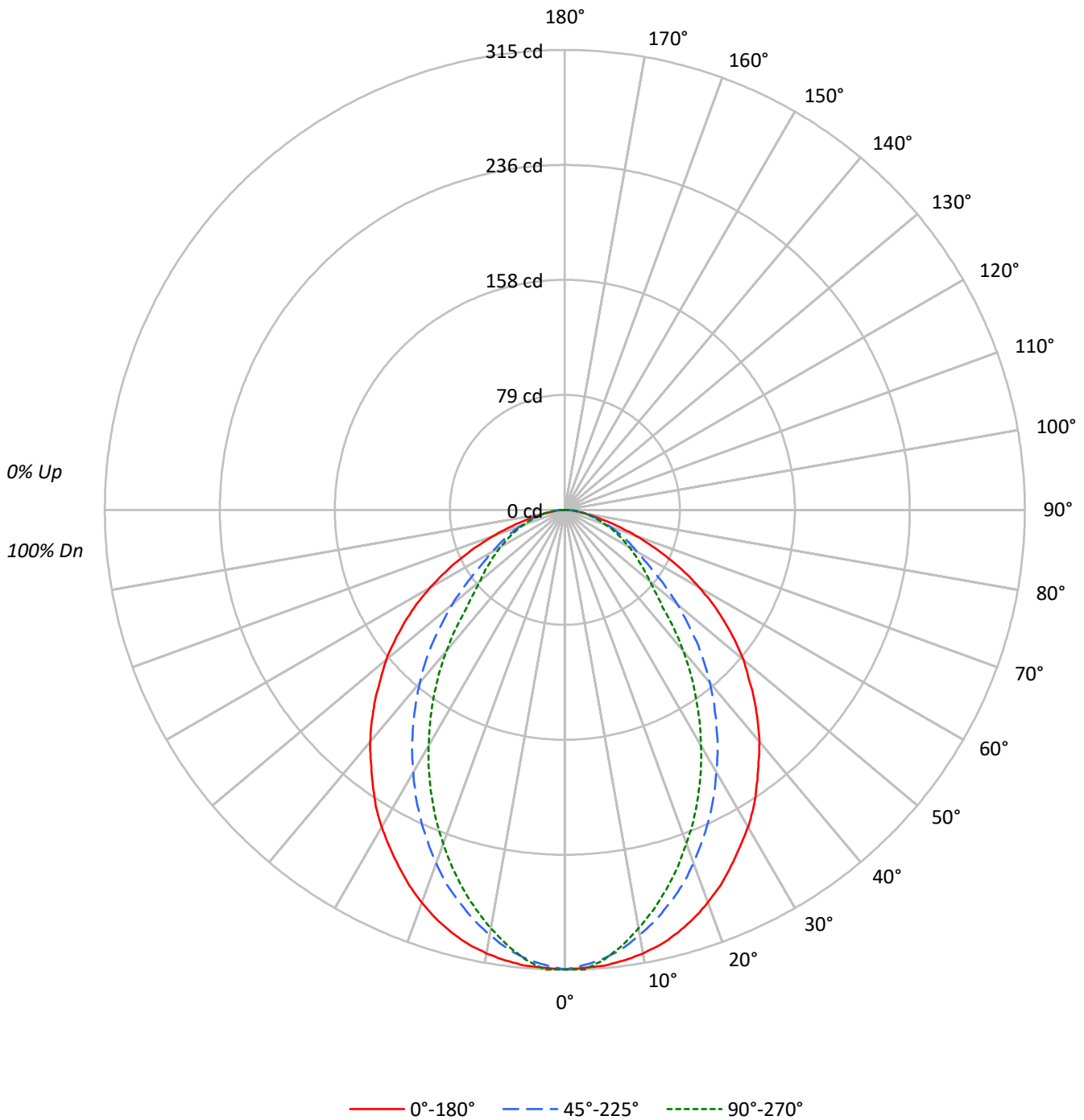
Lumens per Lamp: N/A
Luminaire Lumens: 596.2 lumens
Efficiency: N/A
Efficacy: 47.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87				
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75				
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65				
4	86	75	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57				
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50				
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45				
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40				
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36				
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33				
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2167	2167	2167
5°	2165	2132	2137
10°	2157	2067	2035
15°	2136	1985	1917
20°	2098	1887	1783
25°	2046	1775	1640
30°	1994	1649	1484
35°	1927	1522	1315
40°	1864	1388	1133
45°	1787	1241	928
50°	1710	1077	813
55°	1604	898	750
60°	1464	786	701
65°	1281	718	652
70°	1039	646	606
75°	745	591	564
80°	515	527	527
85°	379	458	490

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1787 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.3	4.9
10°-20°	79.1	13.3
20°-30°	109.4	18.3
30°-40°	116.5	19.5
40°-50°	102.4	17.2
50°-60°	77.6	13.0
60°-70°	50.4	8.5
70°-80°	25.0	4.2
80°-90°	6.5	1.1
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°	217.8	36.5
0°-40°	334.3	56.1
0°-60°	514.3	86.3
0°-90°	596.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	596.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	315	315	315	315	315	
5°	313	313	308	310	309	30
15°	300	293	278	272	269	84
25°	269	255	234	222	216	124
35°	229	208	181	165	156	144
45°	184	158	128	105	95	141
55°	134	107	75	65	62	119
65°	79	58	44	41	40	78
75°	28	25	22	22	21	31
85°	5	6	6	6	6	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	314.7	314.7	314.7	314.7	314.7
2.5°	314.0	314.7	312.0	314.4	315.0
5°	313.3	312.6	308.5	309.6	309.2
7.5°	311.3	309.9	303.1	302.4	301.0
10°	308.5	305.1	295.6	293.2	291.1
12.5°	304.8	299.3	287.7	282.9	280.5
15°	299.7	292.8	278.5	272.0	268.9
17.5°	293.5	283.9	268.9	260.0	256.6
20°	286.3	275.1	257.6	247.4	243.3
22.5°	278.5	265.2	245.7	234.7	230.3
25°	269.3	254.6	233.7	221.8	215.9
27.5°	260.0	243.6	221.1	207.7	201.6
30°	250.8	232.0	207.4	193.1	186.6
32.5°	240.9	220.0	194.8	179.0	171.5
35°	229.3	208.1	181.1	164.7	156.5
37.5°	218.0	195.4	167.8	149.3	141.5
40°	207.4	183.5	154.4	134.3	126.1
42.5°	195.4	170.8	141.1	119.9	110.7
45°	183.5	157.9	127.5	104.6	95.3
47.5°	170.8	145.6	113.1	90.5	84.4
50°	159.6	132.9	100.5	80.0	75.9
52.5°	146.6	120.6	87.5	71.8	69.0
55°	133.6	107.3	74.8	64.6	62.5
57.5°	120.3	95.3	64.9	58.4	56.4
60°	106.3	83.0	57.1	51.9	50.9
62.5°	92.3	70.4	50.2	46.5	45.1
65°	78.6	58.4	44.1	40.7	40.0
67.5°	64.6	47.5	37.9	35.5	35.2
70°	51.6	38.6	32.1	30.8	30.1
72.5°	39.6	30.8	27.0	26.0	25.6
75°	28.0	24.6	22.2	21.5	21.2
77.5°	18.8	18.8	17.8	17.1	17.4
80°	13.0	13.7	13.3	13.3	13.3
82.5°	8.5	9.2	9.6	9.6	9.6
85°	4.8	5.5	5.8	5.8	6.2
87.5°	1.7	2.1	2.4	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)