

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: P1061599

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061599
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-S375D830-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

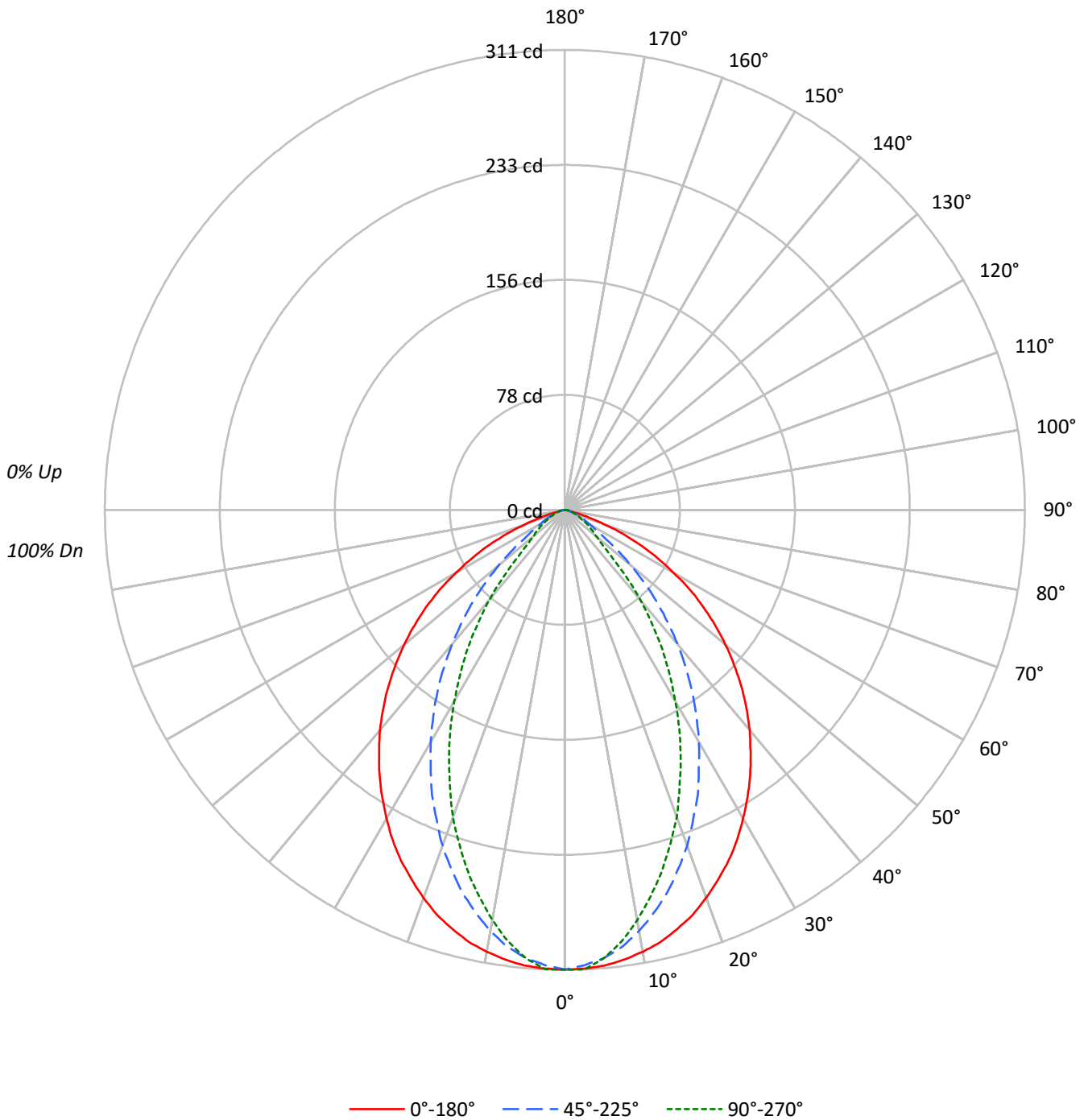
Lumens per Lamp: N/A
Luminaire Lumens: 449.6 lumens
Efficiency: N/A
Efficacy: 36.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	2141	2141	2141
5°	2138	2102	2102
10°	2121	2022	1969
15°	2092	1909	1805
20°	2046	1772	1621
25°	1990	1614	1408
30°	1916	1441	1187
35°	1837	1262	963
40°	1747	1065	714
45°	1643	854	430
50°	1519	627	297
55°	1371	384	246
60°	1164	262	196
65°	920	199	155
70°	580	143	127
75°	189	106	106
80°	63	79	95
85°	32	63	63

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1643 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.8	6.4
10°-20°	75.9	16.9
20°-30°	99.9	22.2
30°-40°	98.1	21.8
40°-50°	74.2	16.5
50°-60°	45.0	10.0
60°-70°	21.3	4.7
70°-80°	5.6	1.2
80°-90°	0.8	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°	204.6	45.5
0°-40°	302.7	67.3
0°-60°	422.0	93.8
0°-90°	449.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	449.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	311	311	311	311	311	
5°	309	308	304	305	304	29
15°	294	286	268	258	253	83
25°	262	242	212	193	185	120
35°	218	189	150	124	115	136
45°	169	133	88	56	44	130
55°	114	78	32	22	20	102
65°	56	29	12	10	10	56
75°	7	5	4	4	4	11
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°	310.9	310.9	310.9	310.9	310.9
2.5°	310.5	310.5	308.1	310.9	310.9
5°	309.3	308.5	304.2	304.6	304.2
7.5°	306.9	305.4	297.9	295.9	294.3
10°	303.4	300.2	289.2	284.4	281.7
12.5°	299.4	293.9	278.9	272.2	267.8
15°	293.5	285.6	267.8	257.6	253.2
17.5°	287.2	275.7	254.8	242.5	237.0
20°	279.3	265.9	241.8	226.7	221.2
22.5°	270.6	254.8	226.7	210.2	202.7
25°	261.9	242.2	212.5	192.8	185.3
27.5°	252.0	229.5	196.3	175.8	167.5
30°	241.0	216.9	181.3	160.0	149.3
32.5°	229.9	203.8	165.5	142.2	131.5
35°	218.5	189.2	150.1	123.6	114.6
37.5°	206.2	175.4	134.3	106.7	96.0
40°	194.4	161.6	118.5	89.3	79.4
42.5°	181.7	147.7	102.7	72.3	61.2
45°	168.7	132.7	87.7	55.7	44.2
47.5°	155.2	119.3	72.7	41.1	33.2
50°	141.8	105.1	58.5	30.4	27.7
52.5°	128.0	91.3	44.2	25.3	24.1
55°	114.2	78.2	32.0	21.7	20.5
57.5°	99.9	64.0	24.1	18.6	17.4
60°	84.5	51.4	19.0	15.4	14.2
62.5°	70.3	40.3	15.4	12.6	11.9
65°	56.5	28.8	12.2	10.3	9.5
67.5°	42.3	19.4	9.5	7.9	7.9
70°	28.8	12.6	7.1	6.3	6.3
72.5°	17.4	7.5	5.1	5.1	5.1
75°	7.1	4.7	4.0	4.0	4.0
77.5°	2.4	2.8	2.8	3.2	3.2
80°	1.6	1.6	2.0	2.4	2.4
82.5°	0.8	1.2	1.2	1.6	1.6
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)