

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1061634

Luminaire Tested: S125RDRP-S375D927-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S375D927-X4F0-XX-UDD-BVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

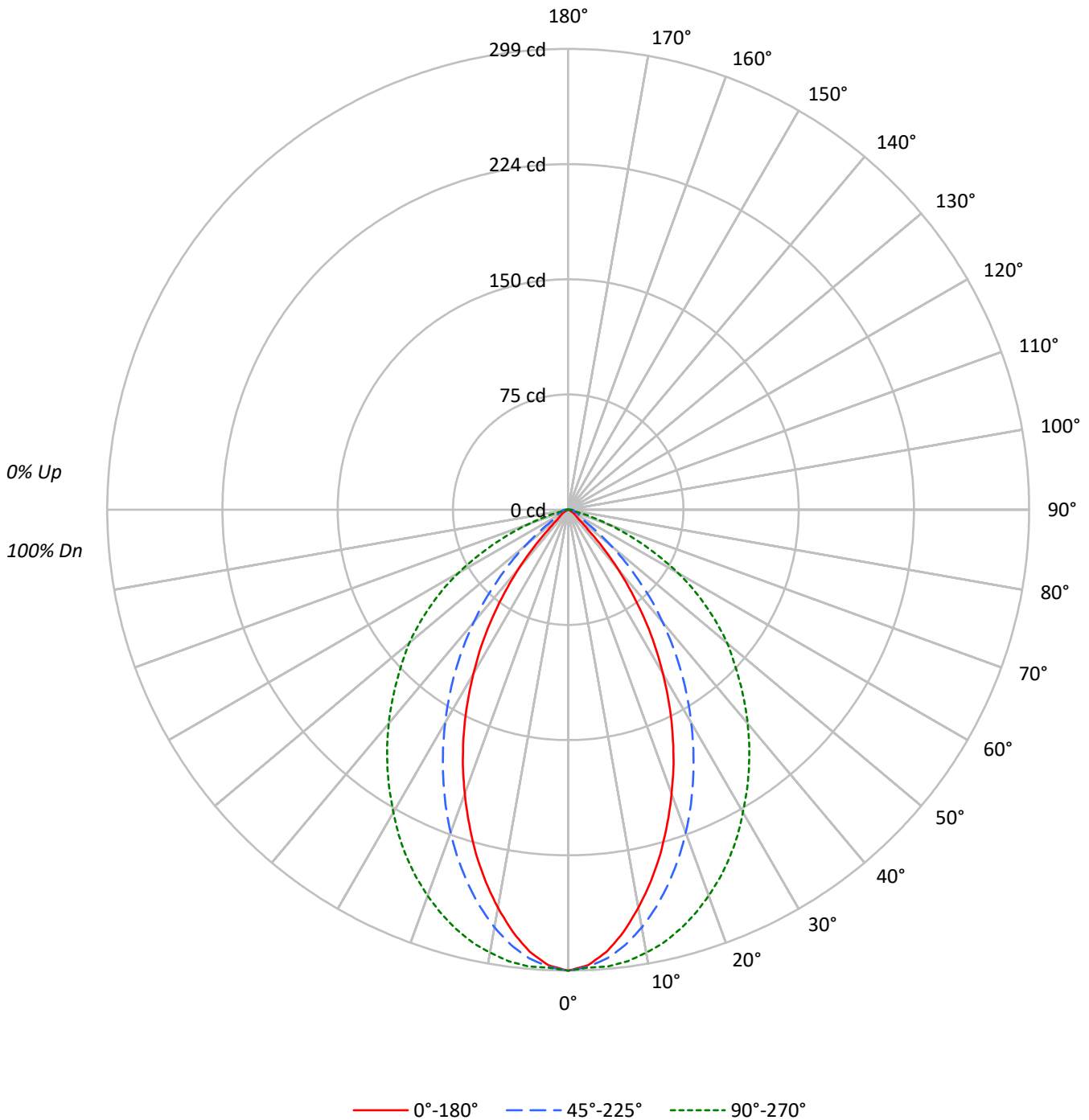
Lumens per Lamp: N/A
Luminaire Lumens: 387.0 lumens
Efficiency: N/A
Efficacy: 31.0 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
Input Voltage (V): 120
Input Current (A_{in}): 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2059	2059	2059
5°	1989	2019	2055
10°	1833	1924	2040
15°	1647	1791	2007
20°	1437	1634	1953
25°	1217	1457	1886
30°	978	1268	1802
35°	724	1070	1718
40°	449	855	1628
45°	174	624	1531
50°	81	392	1442
55°	60	168	1308
60°	41	118	1135
65°	28	124	883
70°	26	113	556
75°	35	114	176
80°	52	131	119
85°	79	261	182

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1531 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.4	7.1
10°-20°	71.1	18.4
20°-30°	90.5	23.4
30°-40°	84.3	21.8
40°-50°	58.0	15.0
50°-60°	32.8	8.5
60°-70°	15.5	4.0
70°-80°	4.8	1.3
80°-90°	2.5	0.7
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°	189.0	48.8
0°-40°	273.3	70.6
0°-60°	364.1	94.1
0°-90°	387.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	387.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	299	299	299	299	299	
5°	288	292	292	295	297	27
15°	231	239	251	270	282	64
25°	160	170	192	224	248	73
35°	86	98	127	171	204	53
45°	18	29	64	116	157	17
55°	5	6	14	67	109	5
65°	2	2	8	24	54	2
75°	1	3	4	5	7	1
85°	1	3	3	3	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	299.1	299.1	299.1	299.1	299.1
2.5°	295.8	298.8	296.8	297.1	297.4
5°	287.8	291.8	292.1	294.8	297.4
7.5°	276.2	281.2	284.8	291.1	295.5
10°	262.2	268.2	275.2	285.5	291.8
12.5°	247.3	254.2	263.9	278.5	287.5
15°	231.0	238.6	251.3	270.2	281.5
17.5°	213.7	222.3	237.6	260.2	274.5
20°	196.1	205.4	223.0	248.9	266.5
22.5°	178.5	188.1	207.7	236.6	257.9
25°	160.2	170.5	191.8	224.0	248.3
27.5°	141.6	152.2	175.8	211.0	238.0
30°	123.0	134.3	159.5	197.7	226.7
32.5°	104.7	116.0	143.6	184.5	215.7
35°	86.1	98.0	127.3	170.8	204.4
37.5°	67.5	80.4	111.3	156.9	192.8
40°	49.9	62.1	95.1	143.2	181.1
42.5°	33.2	45.2	80.4	129.6	169.2
45°	17.9	28.6	64.1	116.0	157.2
47.5°	9.6	15.3	50.2	102.7	145.6
50°	7.6	8.6	36.6	90.4	134.6
52.5°	6.3	7.0	23.9	78.8	122.0
55°	5.0	5.6	14.0	66.8	109.0
57.5°	4.0	4.7	9.0	55.5	96.4
60°	3.0	3.7	8.6	44.5	82.4
62.5°	2.3	2.7	8.0	34.2	67.8
65°	1.7	2.0	7.6	23.9	54.2
67.5°	1.3	1.7	7.0	15.3	40.5
70°	1.3	1.3	5.6	10.0	27.6
72.5°	1.3	2.3	5.0	6.6	16.6
75°	1.3	3.0	4.3	4.7	6.6
77.5°	1.3	3.3	3.7	3.7	3.7
80°	1.3	3.0	3.3	3.3	3.0
82.5°	1.3	2.7	3.0	3.3	2.7
85°	1.0	2.7	3.3	3.0	2.3
87.5°	1.0	2.7	3.0	2.7	1.7
90°	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	0.00	0.00	0.00	0.00	0.00	11.75	13.05	12.12	13.36	13.67
	3H	0.00	0.00	0.00	0.00	0.00	12.47	13.62	12.85	13.95	14.31
	4H	0.00	0.00	0.00	0.00	0.00	12.50	13.56	12.90	13.91	14.30
	6H	0.00	0.00	0.00	0.00	0.00	12.45	13.42	12.86	13.80	14.19
	8H	0.00	0.00	0.00	0.00	0.00	12.43	13.35	12.86	13.74	14.15
	12H	0.00	0.00	0.00	0.00	0.00	12.41	13.29	12.84	13.67	14.10
4H	2H	0.00	0.00	0.00	0.00	0.00	11.55	12.61	11.95	12.96	13.34
	3H	0.00	0.00	0.00	0.00	0.00	12.30	13.17	12.72	13.57	13.98
	4H	0.00	0.00	0.00	0.00	0.00	12.33	13.11	12.77	13.53	13.97
	6H	0.00	0.01	0.00	0.45	0.92	12.31	12.98	12.77	13.42	13.89
	8H	0.00	0.54	0.39	0.99	1.46	12.30	12.92	12.77	13.37	13.84
	12H	0.49	1.04	0.98	1.53	2.00	12.30	12.85	12.79	13.34	13.81
8H	4H	0.00	0.12	0.00	0.57	1.04	12.21	12.84	12.68	13.29	13.76
	6H	1.05	1.56	1.56	2.06	2.54	12.20	12.71	12.71	13.21	13.69
	8H	1.86	2.31	2.38	2.83	3.32	12.22	12.67	12.74	13.19	13.68
	12H	2.71	3.11	3.23	3.61	4.18	12.28	12.68	12.79	13.18	13.75
12H	4H	0.00	0.27	0.20	0.75	1.23	12.17	12.72	12.66	13.21	13.68
	6H	1.42	1.88	1.95	2.40	2.89	12.16	12.61	12.68	13.13	13.62
	8H	2.43	2.83	2.94	3.32	3.90	12.21	12.61	12.72	13.10	13.68