

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: P1061647

Luminaire Tested: S125RDRP-S375D930-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
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: S125RDRP-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

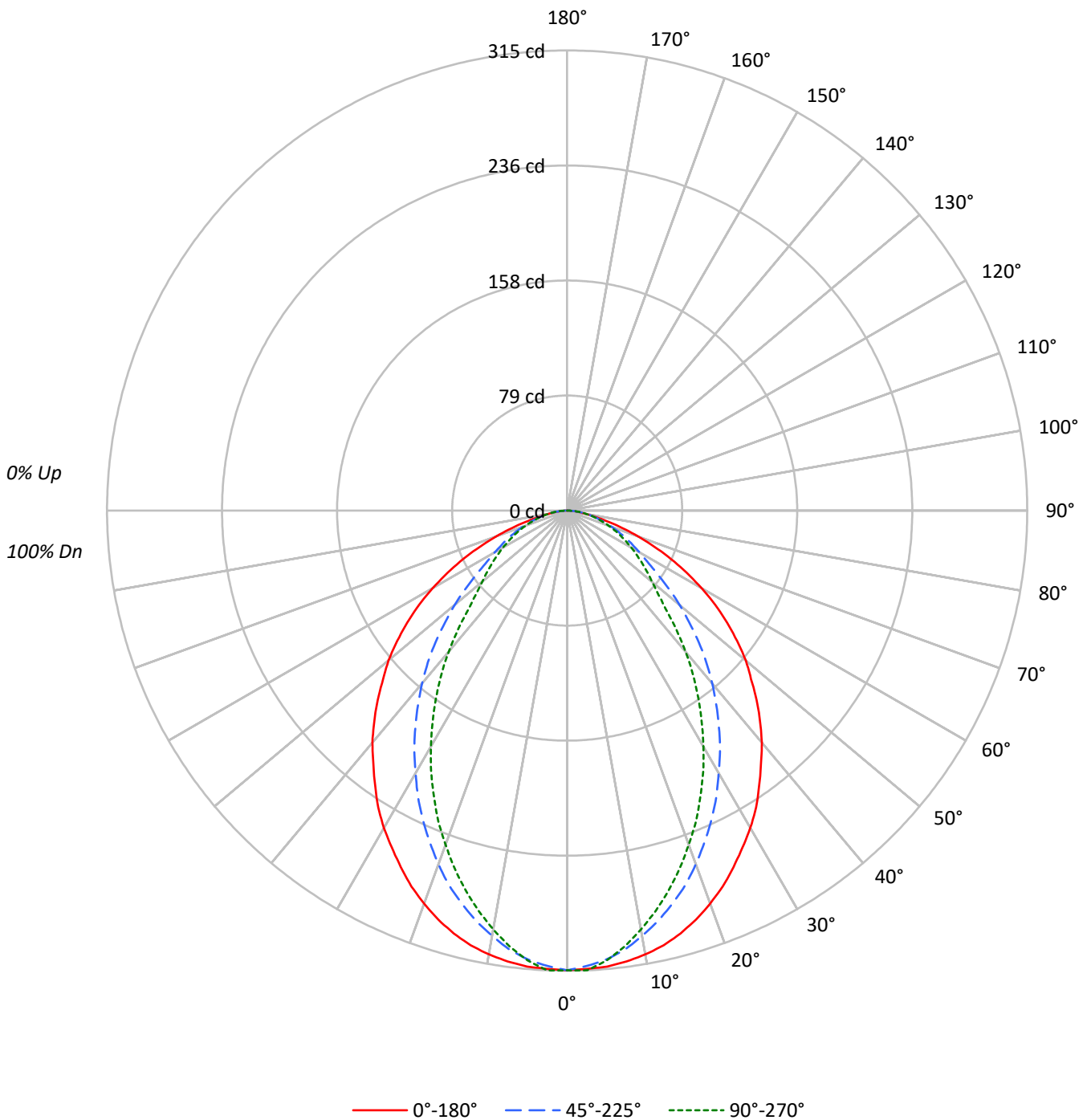
Lumens per Lamp: N/A
Luminaire Lumens: 596.2 lumens
Efficiency: N/A
Efficacy: 47.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
Input Voltage (V): 120
Input Current (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	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	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



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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	13.24	14.73	13.60	15.04	15.36	9.48	10.97	9.84	11.28	11.60
	3H	14.55	15.89	14.93	16.21	16.58	11.06	12.40	11.44	12.73	13.09
	4H	14.92	16.17	15.32	16.52	16.90	11.67	12.92	12.07	13.27	13.65
	6H	15.10	16.25	15.51	16.62	17.01	12.14	13.29	12.55	13.66	14.05
	8H	15.13	16.23	15.56	16.62	17.02	12.30	13.40	12.72	13.79	14.19
	12H	15.14	16.20	15.58	16.58	17.01	12.41	13.46	12.84	13.85	14.28
4H	2H	13.35	14.60	13.75	14.95	15.33	10.14	11.39	10.54	11.74	12.12
	3H	14.84	15.88	15.25	16.28	16.68	11.92	12.96	12.34	13.36	13.76
	4H	15.31	16.25	15.75	16.66	17.10	12.64	13.57	13.07	13.99	14.43
	6H	15.60	16.41	16.06	16.85	17.31	13.23	14.04	13.69	14.48	14.94
	8H	15.67	16.43	16.13	16.87	17.34	13.44	14.19	13.90	14.64	15.11
	12H	15.71	16.38	16.19	16.86	17.34	13.59	14.27	14.07	14.75	15.22
8H	4H	15.40	16.15	15.86	16.60	17.07	12.95	13.71	13.42	14.15	14.62
	6H	15.76	16.39	16.26	16.88	17.36	13.66	14.28	14.16	14.78	15.25
	8H	15.88	16.44	16.39	16.95	17.44	13.94	14.50	14.45	15.01	15.50
	12H	15.96	16.46	16.47	16.95	17.52	14.17	14.67	14.68	15.16	15.72
12H	4H	15.39	16.07	15.87	16.55	17.02	12.98	13.65	13.46	14.13	14.61
	6H	15.76	16.33	16.28	16.84	17.32	13.71	14.27	14.22	14.78	15.27
	8H	15.92	16.42	16.43	16.91	17.48	14.05	14.54	14.56	15.04	15.60