

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: P1061642

Luminaire Tested: S125RDRP-S375D930-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S375D930-X4F0-XX-UDD-BVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

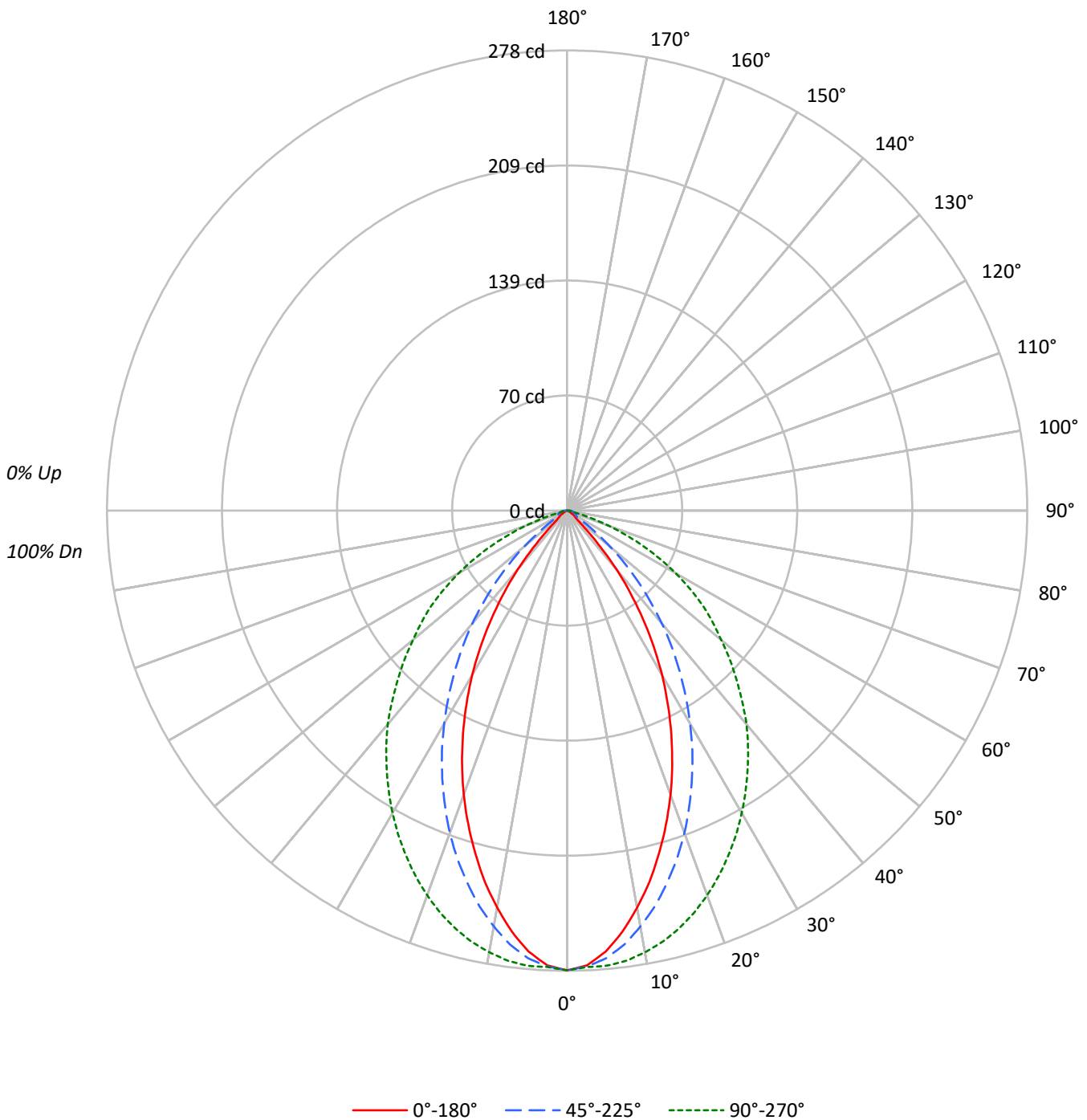
Lumens per Lamp: N/A
Luminaire Lumens: 357.2 lumens
Efficiency: N/A
Efficacy: 28.6 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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																		
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	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	98	98	96	95	95	93	92	90																												
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81																												
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72																												
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65																												
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59																												
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54																												
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49																												
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45																												
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42																												
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1912	1912	1912
5°	1848	1876	1908
10°	1702	1784	1894
15°	1528	1660	1863
20°	1338	1518	1812
25°	1130	1356	1749
30°	911	1180	1678
35°	670	994	1598
40°	418	803	1515
45°	157	586	1409
50°	73	366	1300
55°	53	152	1203
60°	37	80	1041
65°	23	94	824
70°	20	111	523
75°	27	109	165
80°	40	135	123
85°	79	213	166

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1409 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.5	7.1
10°-20°	65.9	18.5
20°-30°	84.0	23.5
30°-40°	78.2	21.9
40°-50°	53.6	15.0
50°-60°	29.5	8.3
60°-70°	14.0	3.9
70°-80°	4.4	1.2
80°-90°	2.2	0.6
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°	175.4	49.1
0°-40°	253.5	71.0
0°-60°	336.6	94.2
0°-90°	357.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	357.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	278	278	278	278	278	
5°	267	271	272	274	276	25
15°	214	221	233	250	261	60
25°	149	158	178	207	230	68
35°	80	91	118	157	190	49
45°	16	27	60	107	145	15
55°	4	5	13	60	100	4
65°	1	2	6	22	51	2
75°	1	2	4	4	6	1
85°	1	2	3	2	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	277.7	277.7	277.7	277.7	277.7
2.5°	275.0	277.7	275.6	275.6	276.0
5°	267.4	270.9	271.5	273.6	276.0
7.5°	256.5	260.9	264.4	270.2	274.3
10°	243.5	249.0	255.1	264.7	270.9
12.5°	229.8	235.6	244.9	258.2	266.8
15°	214.4	221.3	232.9	250.3	261.3
17.5°	198.7	206.2	220.6	241.1	254.8
20°	182.6	190.5	207.2	230.2	247.3
22.5°	165.9	174.4	192.9	218.9	239.1
25°	148.8	158.0	178.5	207.2	230.2
27.5°	131.7	141.2	163.8	195.3	220.9
30°	114.6	124.5	148.4	183.0	211.0
32.5°	97.1	108.1	133.4	170.7	200.7
35°	79.7	91.0	118.3	157.3	190.1
37.5°	62.6	74.2	103.6	144.7	179.5
40°	46.5	58.1	89.3	132.0	168.6
42.5°	30.1	42.4	74.2	119.0	156.6
45°	16.1	27.0	60.2	106.7	144.7
47.5°	8.5	14.4	46.9	94.4	133.4
50°	6.8	7.9	34.2	82.1	121.4
52.5°	5.5	6.2	21.9	69.4	110.8
55°	4.4	5.1	12.7	59.5	100.2
57.5°	3.4	4.1	7.2	49.6	87.9
60°	2.7	3.1	5.8	39.7	75.6
62.5°	1.7	2.4	5.8	30.8	63.3
65°	1.4	1.7	5.8	21.9	50.6
67.5°	1.4	1.4	5.8	14.4	38.0
70°	1.0	1.0	5.5	9.2	26.0
72.5°	1.0	1.0	4.8	6.2	15.0
75°	1.0	1.7	4.1	4.4	6.2
77.5°	1.0	2.7	3.8	3.8	3.4
80°	1.0	2.7	3.4	3.1	3.1
82.5°	1.0	2.7	2.7	2.7	2.4
85°	1.0	2.4	2.7	2.4	2.1
87.5°	1.0	2.4	2.4	2.4	1.4
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	11.30	12.58	11.66	12.90	13.21
	3H	0.00	0.00	0.00	0.00	0.00	12.09	13.22	12.47	13.55	13.92
	4H	0.00	0.00	0.00	0.00	0.00	12.11	13.17	12.52	13.52	13.91
	6H	0.00	0.00	0.00	0.00	0.00	12.07	13.04	12.48	13.41	13.81
	8H	0.00	0.00	0.00	0.00	0.00	12.05	12.96	12.48	13.36	13.76
	12H	0.00	0.00	0.00	0.00	0.00	12.03	12.91	12.46	13.29	13.72
4H	2H	0.00	0.00	0.00	0.00	0.00	11.08	12.14	11.48	12.49	12.87
	3H	0.00	0.00	0.00	0.00	0.00	11.91	12.77	12.32	13.18	13.58
	4H	0.00	0.00	0.00	0.00	0.00	11.94	12.71	12.38	13.13	13.58
	6H	0.00	0.00	0.00	0.00	0.00	11.93	12.60	12.40	13.04	13.51
	8H	0.00	0.00	0.00	0.00	0.25	11.92	12.54	12.39	12.98	13.45
	12H	0.00	0.00	0.00	0.48	0.96	11.92	12.47	12.41	12.95	13.42
8H	4H	0.00	0.00	0.00	0.00	0.12	11.83	12.45	12.30	12.90	13.37
	6H	0.29	0.80	0.80	1.30	1.78	11.83	12.34	12.34	12.84	13.32
	8H	1.23	1.68	1.75	2.20	2.69	11.84	12.29	12.36	12.81	13.30
	12H	2.16	2.56	2.68	3.06	3.63	11.89	12.29	12.40	12.78	13.35
12H	4H	0.00	0.00	0.00	0.00	0.39	11.79	12.33	12.28	12.82	13.29
	6H	0.75	1.20	1.27	1.72	2.21	11.79	12.24	12.31	12.76	13.25
	8H	1.87	2.27	2.38	2.76	3.34	11.83	12.23	12.34	12.72	13.29