

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: P1061663

Luminaire Tested: S125RDRP-S375D940-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-86)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S375D940-X4F0-XX-UDD-SVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

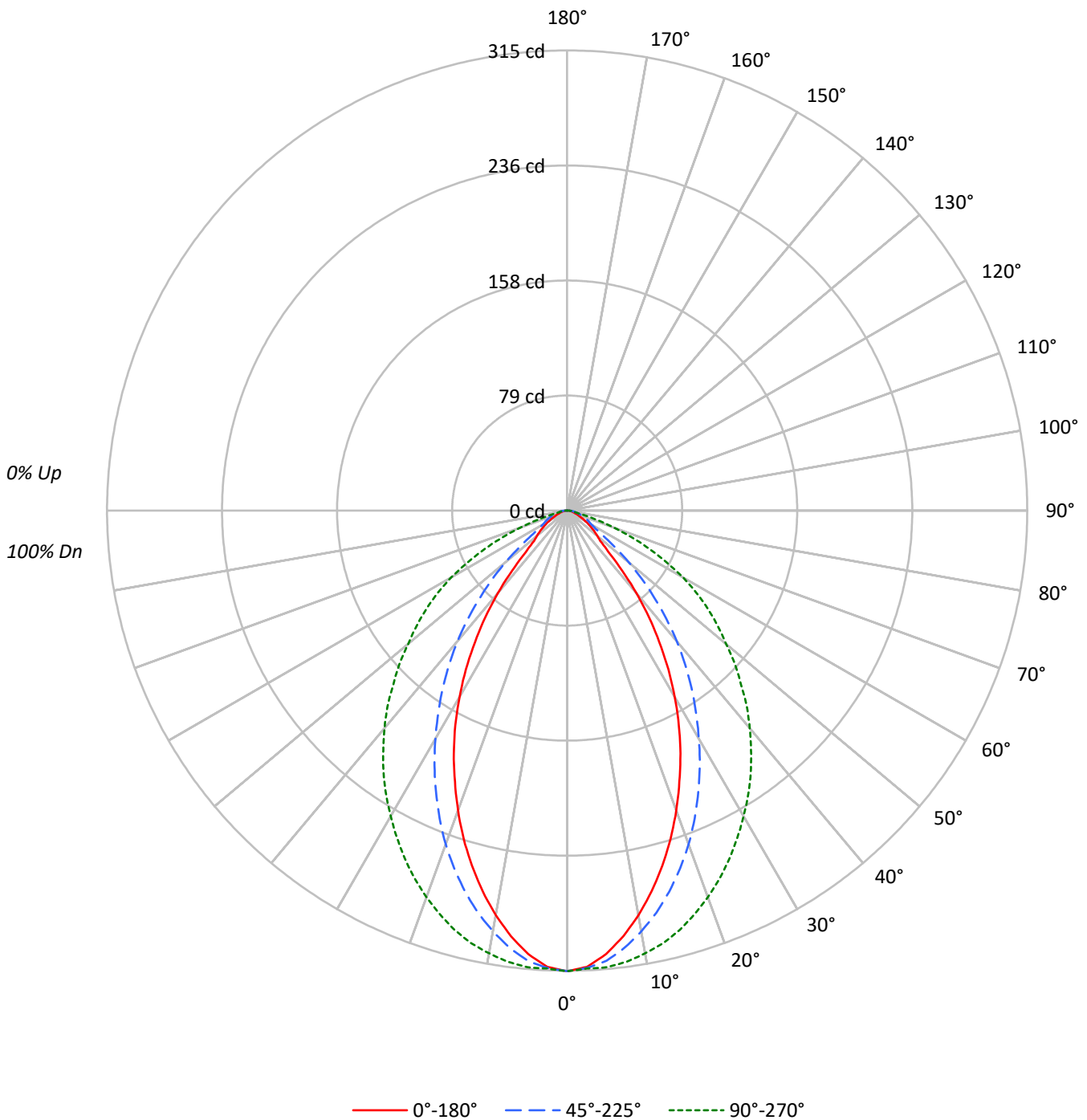
Lumens per Lamp: N/A
Luminaire Lumens: 455.2 lumens
Efficiency: N/A
Efficacy: 36.4 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2171	2171	2171
5°	2107	2138	2169
10°	1966	2045	2152
15°	1794	1925	2119
20°	1600	1781	2063
25°	1395	1614	1997
30°	1171	1433	1921
35°	925	1248	1842
40°	662	1049	1748
45°	389	823	1639
50°	288	592	1522
55°	242	359	1414
60°	196	263	1261
65°	152	249	1012
70°	129	234	684
75°	120	210	298
80°	119	206	194
85°	150	269	205

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1639 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.0	6.4
10°-20°	76.3	16.8
20°-30°	99.7	21.9
30°-40°	97.1	21.3
40°-50°	72.6	15.9
50°-60°	45.0	9.9
60°-70°	23.6	5.2
70°-80°	8.6	1.9
80°-90°	3.3	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°	205.1	45.1
0°-40°	302.2	66.4
0°-60°	419.7	92.2
0°-90°	455.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	455.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	315	315	315	315	315	
5°	305	309	309	311	314	28
15°	252	259	270	286	297	70
25°	184	193	212	241	263	84
35°	110	122	148	188	219	68
45°	40	52	84	132	168	34
55°	20	21	30	78	118	18
65°	9	10	15	33	62	10
75°	4	5	8	9	11	5
85°	2	3	3	3	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	315.3	315.3	315.3	315.3	315.3
2.5°	312.6	315.3	313.4	313.4	313.8
5°	304.8	308.9	309.3	311.2	313.8
7.5°	294.0	298.8	301.8	307.4	311.5
10°	281.2	286.8	292.5	301.8	307.8
12.5°	267.0	273.8	282.0	294.7	303.3
15°	251.7	259.2	270.0	286.5	297.3
17.5°	235.6	243.5	256.9	276.7	289.8
20°	218.4	227.0	243.1	265.5	281.6
22.5°	200.8	210.6	228.1	253.6	272.6
25°	183.6	193.0	212.4	241.2	262.9
27.5°	165.7	175.4	196.7	228.5	252.4
30°	147.3	157.8	180.3	215.4	241.6
32.5°	129.0	139.9	164.2	202.0	230.7
35°	110.0	121.9	148.5	188.1	219.2
37.5°	92.0	104.7	132.4	173.9	206.8
40°	73.7	86.8	116.7	160.1	194.5
42.5°	55.7	69.2	100.6	145.9	182.1
45°	40.0	52.4	84.5	132.0	168.3
47.5°	30.7	37.8	69.6	117.8	156.0
50°	26.9	29.2	55.3	104.0	142.1
52.5°	23.6	25.1	41.1	90.5	130.1
55°	20.2	21.3	29.9	77.8	117.8
57.5°	17.2	18.3	22.8	66.2	105.1
60°	14.2	15.3	19.1	54.6	91.6
62.5°	12.0	12.3	17.2	43.8	76.7
65°	9.3	10.1	15.3	32.9	62.1
67.5°	7.9	8.2	13.5	23.6	47.9
70°	6.4	6.7	11.6	16.5	34.0
72.5°	5.6	5.6	9.7	12.0	21.7
75°	4.5	5.2	7.9	8.6	11.2
77.5°	3.7	5.2	6.7	6.4	6.0
80°	3.0	4.9	5.2	5.2	4.9
82.5°	2.6	4.1	4.5	4.1	3.7
85°	1.9	3.4	3.4	3.4	2.6
87.5°	1.5	3.0	2.6	2.6	1.9
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	2.47	3.82	2.84	4.13	4.45	12.18	13.53	12.55	13.85	14.16
	3H	3.31	4.51	3.69	4.84	5.21	13.10	14.30	13.48	14.63	14.99
	4H	3.67	4.79	4.07	5.14	5.52	13.20	14.31	13.60	14.66	15.05
	6H	4.04	5.07	4.46	5.44	5.83	13.18	14.21	13.60	14.58	14.97
	8H	4.22	5.20	4.65	5.59	5.99	13.17	14.14	13.60	14.53	14.94
	12H	4.39	5.32	4.82	5.70	6.13	13.16	14.09	13.59	14.47	14.90
4H	2H	3.30	4.42	3.70	4.77	5.15	12.03	13.15	12.44	13.50	13.88
	3H	4.36	5.27	4.77	5.68	6.08	13.03	13.94	13.44	14.34	14.75
	4H	4.81	5.63	5.25	6.05	6.49	13.15	13.97	13.59	14.39	14.83
	6H	5.37	6.07	5.83	6.52	6.99	13.19	13.89	13.65	14.34	14.80
	8H	5.63	6.29	6.10	6.73	7.20	13.19	13.85	13.66	14.29	14.76
	12H	5.87	6.46	6.36	6.94	7.41	13.19	13.78	13.68	14.26	14.73
8H	4H	5.37	6.03	5.84	6.47	6.94	13.08	13.74	13.55	14.18	14.66
	6H	6.15	6.69	6.65	7.18	7.66	13.14	13.68	13.64	14.17	14.65
	8H	6.56	7.05	7.08	7.56	8.05	13.17	13.65	13.69	14.17	14.66
	12H	6.99	7.41	7.50	7.91	8.48	13.22	13.65	13.73	14.14	14.71
12H	4H	5.43	6.01	5.91	6.49	6.97	13.04	13.63	13.53	14.11	14.58
	6H	6.29	6.78	6.81	7.29	7.78	13.10	13.59	13.63	14.10	14.60
	8H	6.82	7.25	7.33	7.74	8.31	13.17	13.60	13.68	14.09	14.66