

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: P1061655

Luminaire Tested: S125RDRP-S375D935-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S375D935-X4F0-XX-UDD-SVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

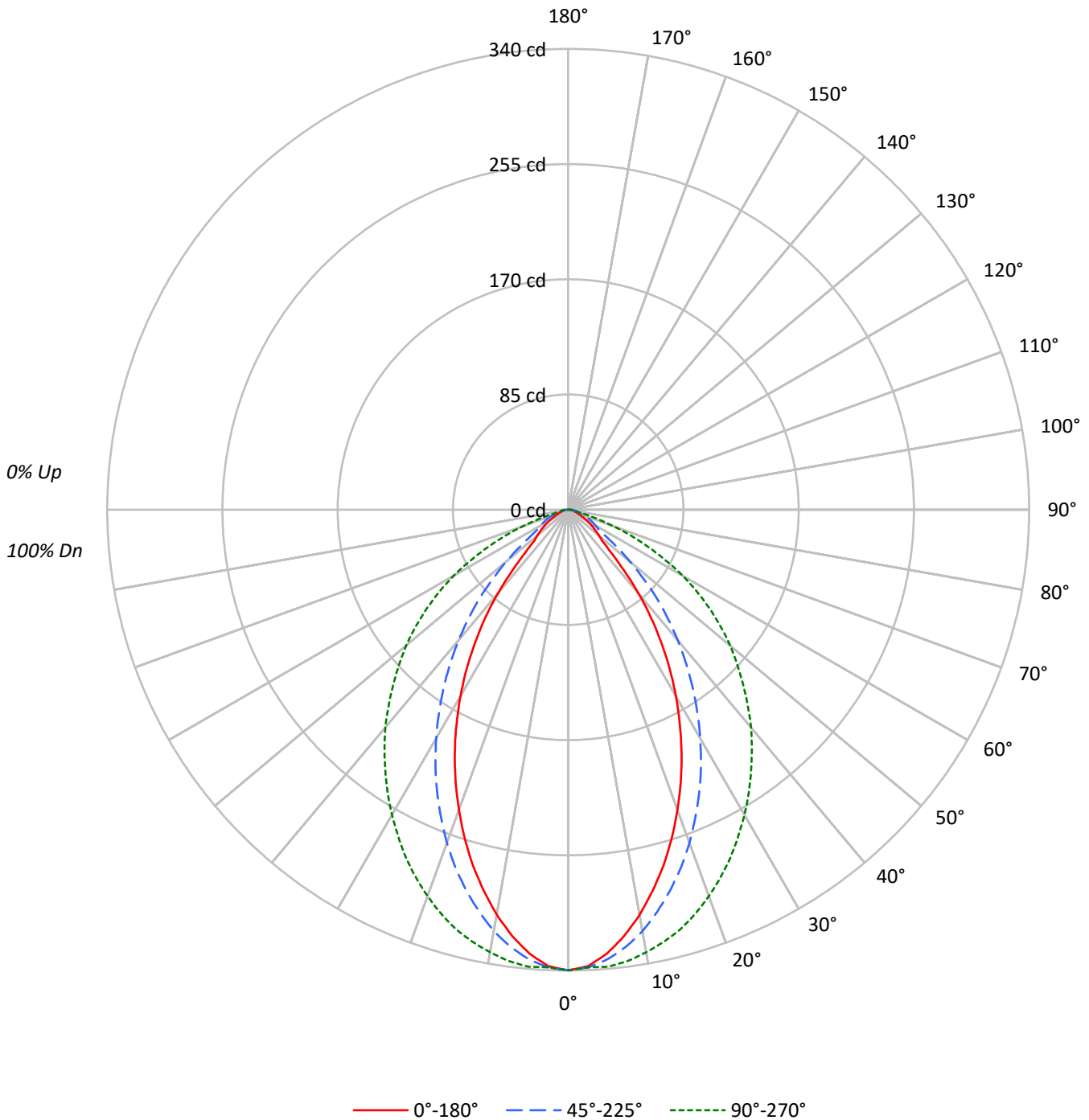
Lumens per Lamp: N/A
Luminaire Lumens: 492.3 lumens
Efficiency: N/A
Efficacy: 39.4 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	105	103	100	101	99	97	98	96	94	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	88	81	76	94	86	80	76	84	78	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	62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	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	40	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2340	2340	2340
5°	2272	2302	2339
10°	2121	2207	2318
15°	1936	2072	2283
20°	1726	1916	2223
25°	1503	1740	2151
30°	1263	1548	2067
35°	1004	1345	1976
40°	724	1130	1886
45°	429	897	1776
50°	317	638	1671
55°	269	395	1531
60°	219	318	1348
65°	171	295	1065
70°	145	254	713
75°	136	221	287
80°	143	230	202
85°	174	340	229

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1776 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.3	6.4
10°-20°	82.3	16.7
20°-30°	107.5	21.8
30°-40°	104.7	21.3
40°-50°	78.6	16.0
50°-60°	49.3	10.0
60°-70°	25.7	5.2
70°-80°	9.3	1.9
80°-90°	3.7	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°	221.1	44.9
0°-40°	325.9	66.2
0°-60°	453.7	92.2
0°-90°	492.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	492.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	340	340	340	340	340	
5°	329	333	333	336	338	31
15°	272	280	291	309	320	76
25°	198	209	229	260	283	90
35°	120	132	160	203	235	74
45°	44	57	92	142	182	37
55°	22	24	33	86	128	20
65°	10	11	18	35	65	11
75°	5	7	8	9	11	6
85°	2	4	4	4	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	339.9	339.9	339.9	339.9	339.9
2.5°	337.0	340.2	338.0	338.0	338.0
5°	328.7	333.0	333.0	335.5	338.4
7.5°	317.1	322.2	325.4	331.5	335.9
10°	303.4	309.5	315.7	325.8	331.5
12.5°	287.8	295.1	303.7	317.8	326.5
15°	271.6	279.5	290.7	308.8	320.3
17.5°	253.9	263.3	276.6	298.3	312.4
20°	235.5	244.9	261.5	286.0	303.4
22.5°	217.1	227.2	245.2	273.0	293.6
25°	197.9	208.8	229.0	260.0	283.2
27.5°	178.4	189.6	212.0	246.7	271.6
30°	158.9	170.5	194.7	232.2	260.0
32.5°	139.4	151.7	177.3	217.4	247.8
35°	119.5	132.2	160.0	202.6	235.1
37.5°	100.4	113.0	142.7	187.4	222.5
40°	80.5	94.3	125.7	172.3	209.8
42.5°	61.0	75.1	108.7	157.1	196.1
45°	44.1	57.1	92.1	142.3	182.4
47.5°	33.9	41.2	75.1	127.1	169.0
50°	29.6	31.8	59.6	113.0	156.0
52.5°	25.6	27.1	44.8	100.0	141.9
55°	22.4	23.5	32.9	86.0	127.5
57.5°	18.8	20.2	26.0	72.2	112.7
60°	15.9	16.6	23.1	59.6	97.9
62.5°	13.0	13.7	20.6	47.0	81.3
65°	10.5	11.2	18.1	34.7	65.4
67.5°	8.7	9.0	15.2	24.6	50.2
70°	7.2	7.6	12.6	17.0	35.4
72.5°	6.1	7.2	10.1	12.3	22.4
75°	5.1	6.9	8.3	8.7	10.8
77.5°	4.3	6.5	6.9	6.9	6.1
80°	3.6	5.4	5.8	5.4	5.1
82.5°	2.9	4.3	4.7	4.7	4.0
85°	2.2	3.6	4.3	4.0	2.9
87.5°	1.4	3.3	3.6	3.3	2.2
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	2.87	4.22	3.23	4.53	4.85	12.48	13.83	12.85	14.15	14.46
	3H	3.72	4.93	4.10	5.25	5.62	13.32	14.52	13.70	14.85	15.22
	4H	4.15	5.27	4.55	5.62	6.00	13.40	14.52	13.80	14.87	15.25
	6H	4.58	5.60	4.99	5.97	6.37	13.38	14.41	13.80	14.78	15.17
	8H	4.75	5.73	5.18	6.12	6.53	13.37	14.34	13.80	14.74	15.14
	12H	4.92	5.85	5.35	6.24	6.67	13.36	14.29	13.79	14.67	15.10
4H	2H	3.83	4.95	4.24	5.30	5.69	12.35	13.47	12.75	13.82	14.20
	3H	4.89	5.80	5.30	6.21	6.61	13.26	14.17	13.67	14.58	14.98
	4H	5.45	6.27	5.89	6.69	7.13	13.36	14.18	13.79	14.60	15.04
	6H	6.05	6.76	6.51	7.20	7.67	13.39	14.10	13.85	14.54	15.01
	8H	6.28	6.95	6.75	7.39	7.86	13.39	14.05	13.86	14.50	14.97
	12H	6.51	7.10	7.00	7.58	8.05	13.40	13.99	13.89	14.47	14.94
8H	4H	5.93	6.59	6.39	7.03	7.50	13.28	13.95	13.75	14.39	14.86
	6H	6.73	7.27	7.23	7.77	8.25	13.34	13.88	13.84	14.38	14.86
	8H	7.11	7.60	7.63	8.11	8.60	13.37	13.86	13.89	14.37	14.86
	12H	7.50	7.93	8.02	8.43	9.00	13.44	13.87	13.95	14.36	14.93
12H	4H	5.98	6.56	6.46	7.04	7.52	13.25	13.84	13.74	14.32	14.79
	6H	6.86	7.34	7.38	7.86	8.35	13.31	13.79	13.83	14.31	14.80
	8H	7.34	7.77	7.86	8.27	8.84	13.38	13.81	13.89	14.30	14.87