

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: P1061610

Luminaire Tested: S125RDRP-S375D835-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061610
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-S375D835-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, 80 CRI LEDS
Ballast/Driver: -

Summary

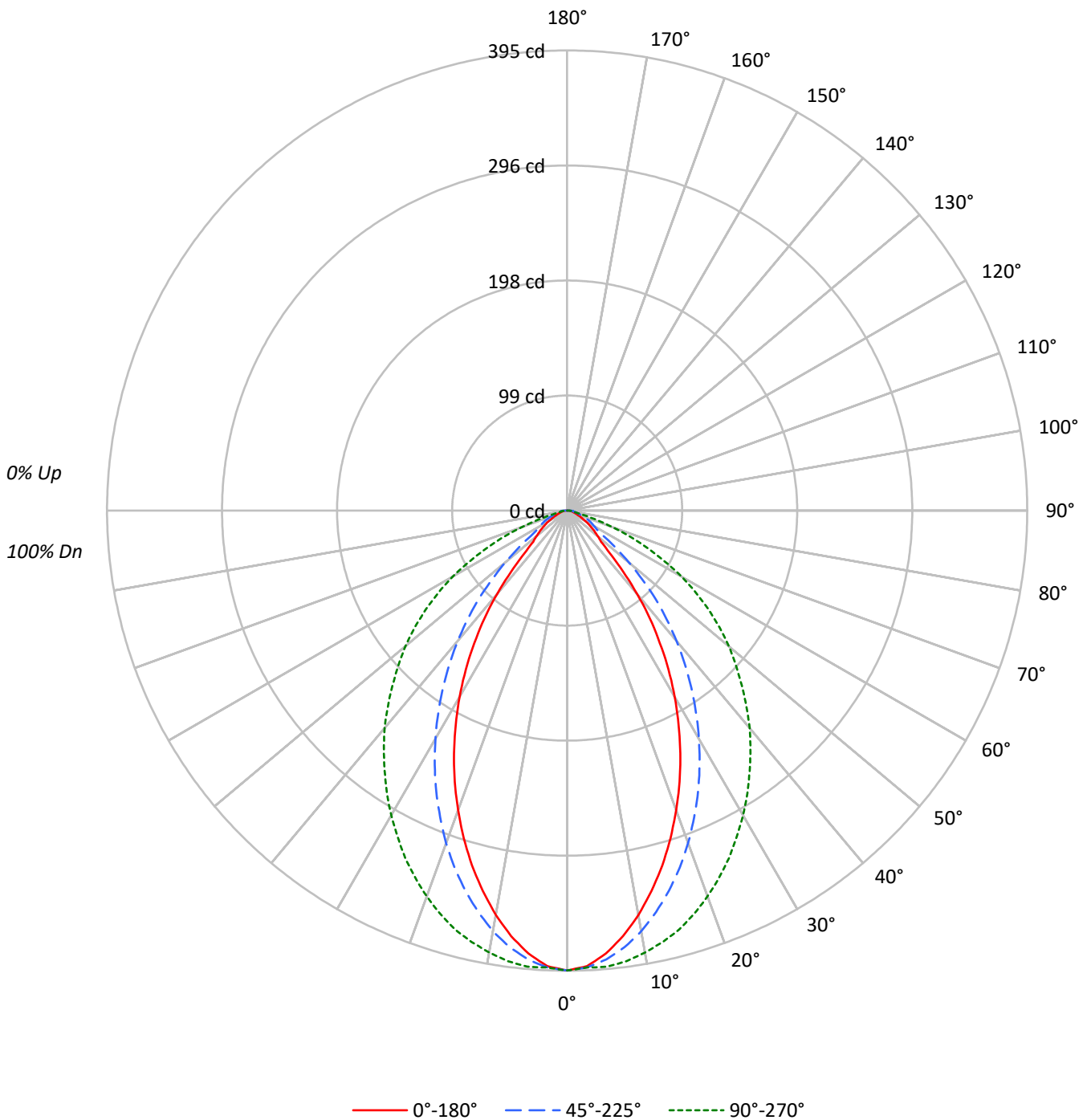
Lumens per Lamp: N/A
Luminaire Lumens: 571.8 lumens
Efficiency: N/A
Efficacy: 45.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	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	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°	2718	2718	2718
5°	2638	2673	2716
10°	2464	2563	2692
15°	2248	2407	2652
20°	2004	2225	2582
25°	1747	2020	2499
30°	1468	1798	2401
35°	1167	1562	2295
40°	840	1312	2190
45°	499	1042	2062
50°	368	741	1941
55°	312	459	1778
60°	255	369	1566
65°	199	342	1237
70°	169	296	827
75°	157	255	335
80°	167	266	234
85°	197	395	269

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2062 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.4	6.4
10°-20°	95.5	16.7
20°-30°	124.9	21.8
30°-40°	121.7	21.3
40°-50°	91.3	16.0
50°-60°	57.2	10.0
60°-70°	29.8	5.2
70°-80°	10.8	1.9
80°-90°	4.3	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°	256.8	44.9
0°-40°	378.5	66.2
0°-60°	526.9	92.2
0°-90°	571.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	571.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	395	395	395	395	395	
5°	382	387	387	390	393	35
15°	315	325	338	359	372	88
25°	230	242	266	302	329	105
35°	139	154	186	235	273	86
45°	51	66	107	165	212	43
55°	26	27	38	100	148	23
65°	12	13	21	40	76	13
75°	6	8	10	10	13	6
85°	2	4	5	5	3	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	394.7	394.7	394.7	394.7	394.7
2.5°	391.4	395.1	392.6	392.6	392.6
5°	381.7	386.7	386.7	389.7	393.0
7.5°	368.3	374.2	377.9	385.1	390.1
10°	352.4	359.5	366.6	378.4	385.1
12.5°	334.3	342.7	352.8	369.1	379.2
15°	315.4	324.7	337.7	358.6	372.1
17.5°	294.9	305.8	321.3	346.5	362.8
20°	273.5	284.4	303.7	332.2	352.4
22.5°	252.1	263.8	284.8	317.1	341.0
25°	229.9	242.5	265.9	302.0	328.9
27.5°	207.2	220.2	246.2	286.5	315.4
30°	184.6	198.0	226.1	269.7	302.0
32.5°	161.9	176.2	206.0	252.5	287.8
35°	138.8	153.5	185.8	235.3	273.1
37.5°	116.6	131.3	165.7	217.7	258.4
40°	93.5	109.5	146.0	200.1	243.7
42.5°	70.9	87.2	126.3	182.5	227.8
45°	51.2	66.3	107.0	165.3	211.8
47.5°	39.4	47.8	87.2	147.7	196.3
50°	34.4	36.9	69.2	131.3	181.2
52.5°	29.8	31.5	52.0	116.2	164.9
55°	26.0	27.3	38.2	99.8	148.1
57.5°	21.8	23.5	30.2	83.9	130.9
60°	18.5	19.3	26.8	69.2	113.7
62.5°	15.1	15.9	23.9	54.5	94.4
65°	12.2	13.0	21.0	40.3	75.9
67.5°	10.1	10.5	17.6	28.5	58.3
70°	8.4	8.8	14.7	19.7	41.1
72.5°	7.1	8.4	11.7	14.3	26.0
75°	5.9	8.0	9.6	10.1	12.6
77.5°	5.0	7.6	8.0	8.0	7.1
80°	4.2	6.3	6.7	6.3	5.9
82.5°	3.4	5.0	5.5	5.5	4.6
85°	2.5	4.2	5.0	4.6	3.4
87.5°	1.7	3.8	4.2	3.8	2.5
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	3.39	4.75	3.76	5.06	5.37	13.00	14.36	13.37	14.67	14.98
	3H	4.25	5.45	4.63	5.78	6.15	13.84	15.04	14.22	15.37	15.74
	4H	4.68	5.80	5.08	6.15	6.53	13.92	15.04	14.32	15.39	15.77
	6H	5.10	6.13	5.52	6.50	6.90	13.90	14.93	14.32	15.30	15.69
	8H	5.29	6.26	5.72	6.65	7.06	13.89	14.87	14.32	15.26	15.66
	12H	5.45	6.38	5.88	6.76	7.19	13.88	14.81	14.31	15.19	15.62
4H	2H	4.36	5.48	4.76	5.83	6.21	12.87	13.99	13.27	14.34	14.72
	3H	5.41	6.33	5.82	6.73	7.13	13.78	14.69	14.19	15.10	15.50
	4H	5.98	6.80	6.41	7.21	7.66	13.88	14.70	14.31	15.12	15.56
	6H	6.58	7.28	7.04	7.73	8.19	13.91	14.62	14.37	15.06	15.53
	8H	6.82	7.48	7.28	7.92	8.39	13.91	14.57	14.38	15.02	15.49
	12H	7.04	7.63	7.53	8.11	8.58	13.92	14.51	14.41	14.99	15.46
8H	4H	6.45	7.11	6.91	7.55	8.02	13.80	14.47	14.27	14.91	15.38
	6H	7.26	7.80	7.76	8.30	8.78	13.86	14.40	14.36	14.90	15.38
	8H	7.64	8.12	8.16	8.64	9.13	13.89	14.38	14.41	14.89	15.39
	12H	8.03	8.46	8.54	8.95	9.52	13.96	14.39	14.47	14.88	15.45
12H	4H	6.50	7.08	6.98	7.57	8.04	13.77	14.36	14.26	14.84	15.31
	6H	7.38	7.87	7.90	8.38	8.88	13.83	14.31	14.35	14.83	15.32
	8H	7.87	8.30	8.39	8.80	9.37	13.90	14.33	14.41	14.82	15.39