

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: P1061628

Luminaire Tested: S125RDRP-S375D850-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061628
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-S375D850-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: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

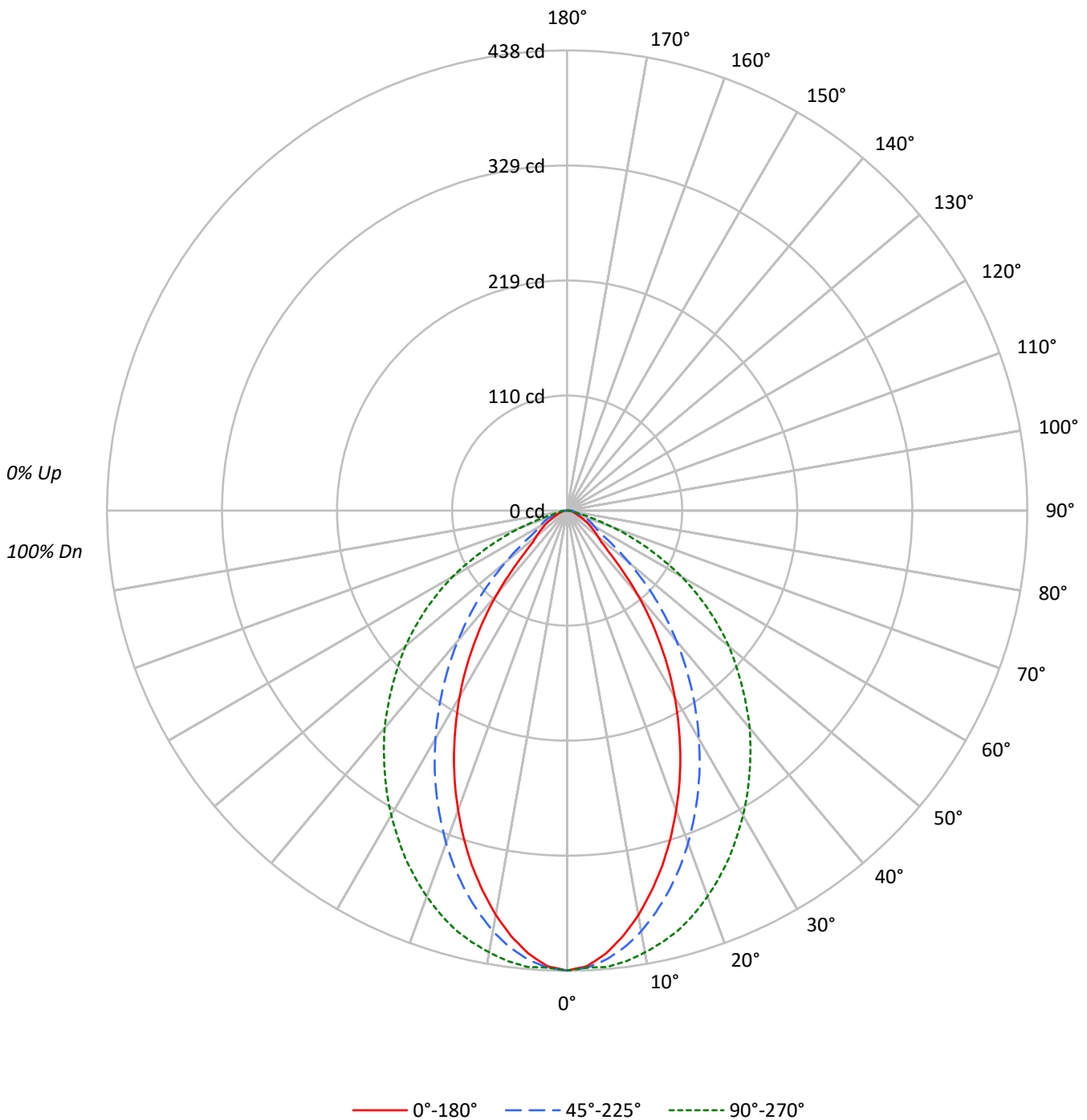
Lumens per Lamp: N/A
Luminaire Lumens: 634.1 lumens
Efficiency: N/A
Efficacy: 50.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	3014	3014	3014
5°	2926	2964	3013
10°	2732	2843	2985
15°	2493	2669	2941
20°	2222	2468	2863
25°	1936	2240	2771
30°	1627	1993	2663
35°	1294	1732	2545
40°	932	1455	2429
45°	553	1155	2287
50°	408	823	2153
55°	346	508	1971
60°	282	410	1736
65°	220	380	1372
70°	187	328	918
75°	173	285	372
80°	186	293	258
85°	221	442	292

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2287 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.3	6.4
10°-20°	106.0	16.7
20°-30°	138.5	21.8
30°-40°	134.9	21.3
40°-50°	101.2	16.0
50°-60°	63.4	10.0
60°-70°	33.0	5.2
70°-80°	11.9	1.9
80°-90°	4.7	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°	284.8	44.9
0°-40°	419.7	66.2
0°-60°	584.4	92.2
0°-90°	634.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	634.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	438	438	438	438	438	
5°	423	429	429	432	436	39
15°	350	360	374	398	413	98
25°	255	269	295	335	365	116
35°	154	170	206	261	303	96
45°	57	74	119	183	235	48
55°	29	30	42	111	164	26
65°	14	14	23	45	84	14
75°	6	9	11	11	14	7
85°	3	5	6	5	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	437.7	437.7	437.7	437.7	437.7
2.5°	434.0	438.2	435.4	435.4	435.4
5°	423.3	428.9	428.9	432.2	435.9
7.5°	408.4	414.9	419.1	427.0	432.6
10°	390.8	398.7	406.6	419.6	427.0
12.5°	370.8	380.1	391.2	409.4	420.5
15°	349.8	360.1	374.5	397.7	412.6
17.5°	327.0	339.1	356.3	384.2	402.4
20°	303.3	315.4	336.8	368.4	390.8
22.5°	279.6	292.6	315.9	351.7	378.2
25°	254.9	268.9	294.9	334.9	364.7
27.5°	229.8	244.2	273.1	317.7	349.8
30°	204.7	219.6	250.7	299.1	334.9
32.5°	179.6	195.4	228.4	280.0	319.1
35°	154.0	170.3	206.1	261.0	302.8
37.5°	129.3	145.6	183.8	241.4	286.6
40°	103.7	121.4	161.9	221.9	270.3
42.5°	78.6	96.8	140.0	202.4	252.6
45°	56.8	73.5	118.6	183.3	234.9
47.5°	43.7	53.0	96.8	163.7	217.7
50°	38.1	40.9	76.8	145.6	201.0
52.5°	33.0	34.9	57.7	128.9	182.8
55°	28.8	30.2	42.3	110.7	164.2
57.5°	24.2	26.1	33.5	93.0	145.1
60°	20.5	21.4	29.8	76.8	126.1
62.5°	16.7	17.7	26.5	60.5	104.7
65°	13.5	14.4	23.3	44.7	84.2
67.5°	11.2	11.6	19.5	31.6	64.7
70°	9.3	9.8	16.3	21.9	45.6
72.5°	7.9	9.3	13.0	15.8	28.8
75°	6.5	8.8	10.7	11.2	14.0
77.5°	5.6	8.4	8.8	8.8	7.9
80°	4.7	7.0	7.4	7.0	6.5
82.5°	3.7	5.6	6.0	6.0	5.1
85°	2.8	4.7	5.6	5.1	3.7
87.5°	1.9	4.2	4.7	4.2	2.8
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	3.76	5.11	4.13	5.43	5.74	13.36	14.71	13.73	15.03	15.34
	3H	4.62	5.82	5.00	6.15	6.51	14.20	15.40	14.58	15.73	16.10
	4H	5.04	6.16	5.44	6.51	6.89	14.28	15.40	14.68	15.75	16.13
	6H	5.47	6.50	5.88	6.87	7.26	14.26	15.29	14.68	15.66	16.05
	8H	5.65	6.62	6.08	7.01	7.42	14.25	15.22	14.68	15.61	16.02
	12H	5.81	6.74	6.24	7.13	7.56	14.24	15.17	14.67	15.55	15.98
4H	2H	4.72	5.84	5.13	6.19	6.58	13.23	14.34	13.63	14.69	15.08
	3H	5.78	6.69	6.19	7.10	7.50	14.14	15.05	14.55	15.46	15.86
	4H	6.33	7.15	6.77	7.57	8.01	14.24	15.06	14.67	15.48	15.92
	6H	6.94	7.65	7.40	8.09	8.56	14.27	14.97	14.73	15.42	15.89
	8H	7.18	7.84	7.64	8.28	8.75	14.27	14.93	14.73	15.37	15.84
	12H	7.40	7.99	7.89	8.47	8.94	14.28	14.86	14.76	15.35	15.82
8H	4H	6.80	7.46	7.27	7.91	8.38	14.16	14.82	14.63	15.27	15.74
	6H	7.62	8.16	8.12	8.66	9.14	14.22	14.76	14.72	15.25	15.73
	8H	8.00	8.49	8.52	9.00	9.49	14.25	14.74	14.77	15.25	15.74
	12H	8.40	8.82	8.91	9.32	9.89	14.31	14.74	14.83	15.24	15.81
12H	4H	6.85	7.44	7.34	7.92	8.39	14.13	14.71	14.62	15.20	15.67
	6H	7.74	8.23	8.26	8.74	9.23	14.18	14.67	14.70	15.18	15.68
	8H	8.23	8.66	8.74	9.15	9.72	14.25	14.68	14.77	15.18	15.75