

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: P1175388

Luminaire Tested: S125RDRP-S850D930-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175388
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)
Test Lab: INNOVATION CENTER
Issue Date: 8/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S850D930-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

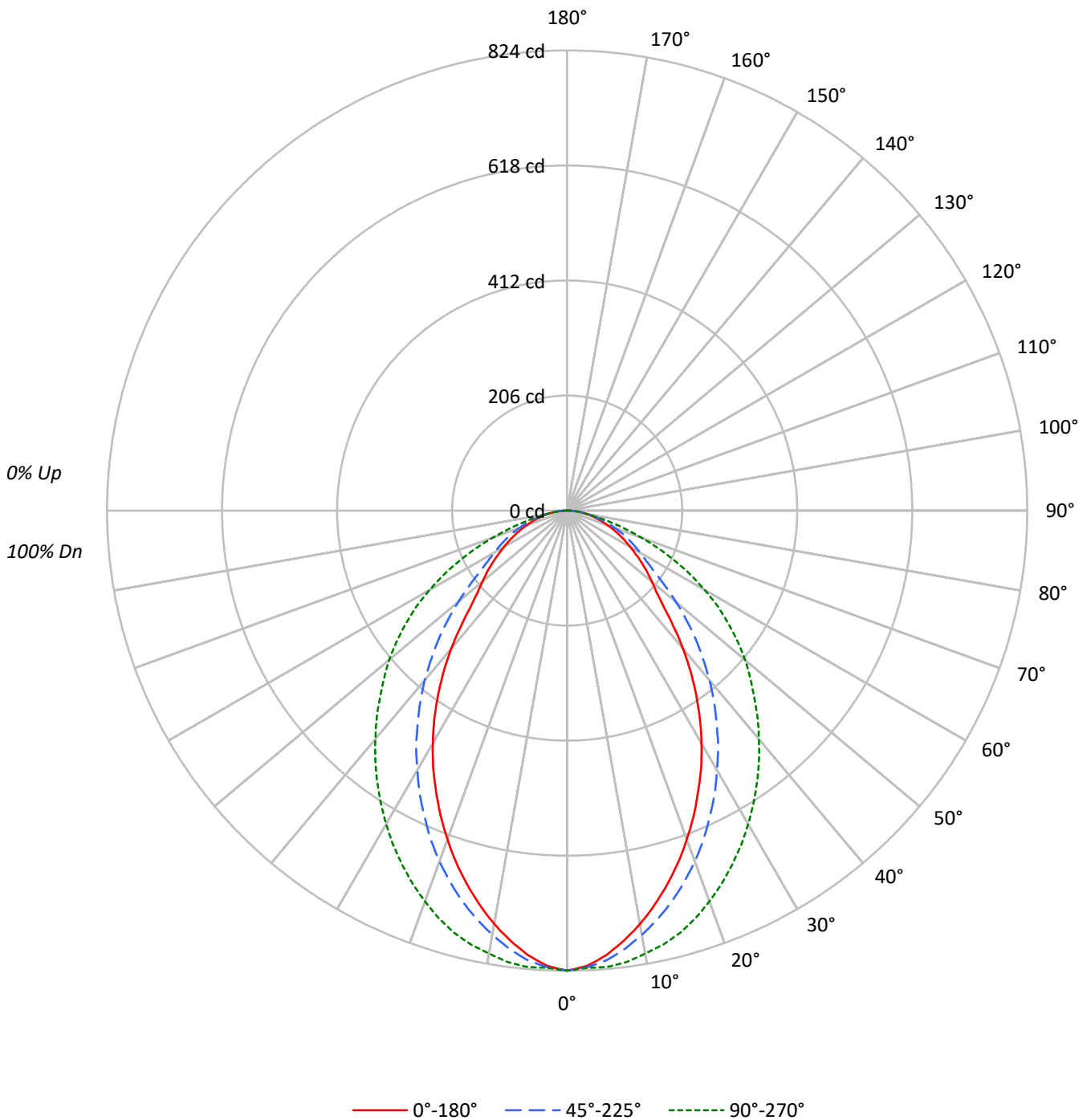
Lumens per Lamp: N/A
Luminaire Lumens: 1551.9 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5672	5672	5672
5°	5524	5587	5670
10°	5256	5393	5632
15°	4940	5164	5578
20°	4591	4898	5457
25°	4218	4590	5313
30°	3825	4265	5154
35°	3386	3920	4984
40°	2904	3564	4802
45°	2384	3173	4616
50°	2120	2726	4457
55°	1955	2283	4230
60°	1801	2079	3919
65°	1675	1960	3464
70°	1562	1830	2830
75°	1468	1692	2120
80°	1388	1554	1527
85°	1272	1548	1272

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4616 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	4.9
10°-20°	205.6	13.2
20°-30°	282.8	18.2
30°-40°	299.9	19.3
40°-50°	262.5	16.9
50°-60°	201.4	13.0
60°-70°	134.2	8.6
70°-80°	68.8	4.4
80°-90°	20.4	1.3
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°	564.6	36.4
0°-40°	864.6	55.7
0°-60°	1328.5	85.6
0°-90°	1551.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1551.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	824	824	824	824	824	
5°	799	810	808	814	820	75
15°	693	709	724	759	782	194
25°	555	574	604	655	699	255
35°	403	422	466	535	593	251
45°	245	265	326	407	474	193
55°	163	166	190	282	352	146
65°	103	104	120	158	213	102
75°	55	59	64	67	80	59
85°	16	18	20	19	16	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	823.8	823.8	823.8	823.8	823.8
2.5°	816.1	824.5	818.2	818.9	819.6
5°	799.3	809.8	808.4	814.0	820.3
7.5°	776.9	788.1	791.6	805.6	815.4
10°	751.8	764.3	771.3	792.3	805.6
12.5°	723.1	737.8	749.0	776.2	795.8
15°	693.0	709.1	724.5	758.7	782.5
17.5°	660.8	676.9	697.2	736.4	765.0
20°	626.6	644.1	668.5	710.5	744.8
22.5°	591.6	609.8	637.8	683.9	723.1
25°	555.2	574.1	604.2	655.2	699.3
27.5°	519.6	537.1	572.0	626.6	674.8
30°	481.1	499.3	536.4	596.5	648.3
32.5°	442.7	460.8	503.5	566.4	621.0
35°	402.8	421.7	466.4	535.0	593.0
37.5°	362.9	382.5	432.2	502.8	564.3
40°	323.1	344.1	396.5	470.6	534.3
42.5°	282.5	304.9	360.1	439.2	504.9
45°	244.8	265.0	325.9	407.0	474.1
47.5°	217.5	229.4	289.5	374.1	444.8
50°	197.9	203.5	254.5	342.7	416.1
52.5°	180.4	183.9	220.3	313.3	384.6
55°	162.9	166.4	190.2	282.5	352.4
57.5°	146.2	148.3	167.8	251.7	320.3
60°	130.8	132.2	151.0	221.0	284.6
62.5°	116.8	117.5	135.0	189.5	249.0
65°	102.8	103.5	120.3	158.0	212.6
67.5°	90.2	90.2	106.3	129.4	177.6
70°	77.6	77.6	90.9	104.9	140.6
72.5°	66.4	67.8	76.9	84.6	109.8
75°	55.2	58.7	63.6	67.1	79.7
77.5°	44.8	49.0	51.0	52.4	53.1
80°	35.0	37.8	39.2	39.9	38.5
82.5°	25.9	28.0	28.7	28.7	26.6
85°	16.1	18.2	19.6	18.9	16.1
87.5°	7.7	10.5	11.2	9.8	7.7
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	12.65	14.15	13.01	14.46	14.77	16.67	18.17	17.03	18.48	18.80
	3H	14.23	15.58	14.61	15.91	16.27	18.06	19.40	18.44	19.73	20.09
	4H	14.88	16.14	15.28	16.48	16.86	18.46	19.72	18.86	20.07	20.45
	6H	15.39	16.55	15.80	16.92	17.31	18.67	19.83	19.08	20.20	20.59
	8H	15.57	16.68	15.99	17.06	17.47	18.73	19.83	19.15	20.22	20.63
	12H	15.69	16.75	16.12	17.14	17.57	18.76	19.82	19.19	20.20	20.63
4H	2H	13.42	14.68	13.82	15.03	15.40	16.80	18.06	17.20	18.41	18.79
	3H	15.20	16.24	15.61	16.64	17.05	18.37	19.42	18.78	19.82	20.22
	4H	15.96	16.91	16.40	17.32	17.76	18.88	19.82	19.31	20.24	20.68
	6H	16.61	17.42	17.06	17.87	18.33	19.21	20.02	19.66	20.47	20.93
	8H	16.84	17.60	17.30	18.05	18.51	19.30	20.07	19.77	20.51	20.98
	12H	17.01	17.69	17.49	18.17	18.64	19.38	20.06	19.86	20.54	21.01
8H	4H	16.35	17.11	16.81	17.56	18.02	18.98	19.74	19.44	20.19	20.66
	6H	17.13	17.76	17.62	18.25	18.73	19.40	20.03	19.90	20.52	21.00
	8H	17.44	18.01	17.96	18.52	19.01	19.56	20.13	20.07	20.64	21.12
	12H	17.71	18.21	18.22	18.70	19.26	19.70	20.20	20.21	20.69	21.26
12H	4H	16.39	17.07	16.87	17.55	18.02	18.98	19.66	19.46	20.14	20.61
	6H	17.20	17.77	17.72	18.28	18.77	19.41	19.98	19.92	20.49	20.98
	8H	17.59	18.09	18.10	18.58	19.14	19.62	20.12	20.13	20.61	21.18