

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: P1061562

Luminaire Tested: S125RDRP-S1270D930-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1270D930-X4F0-XX-UDD-BVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

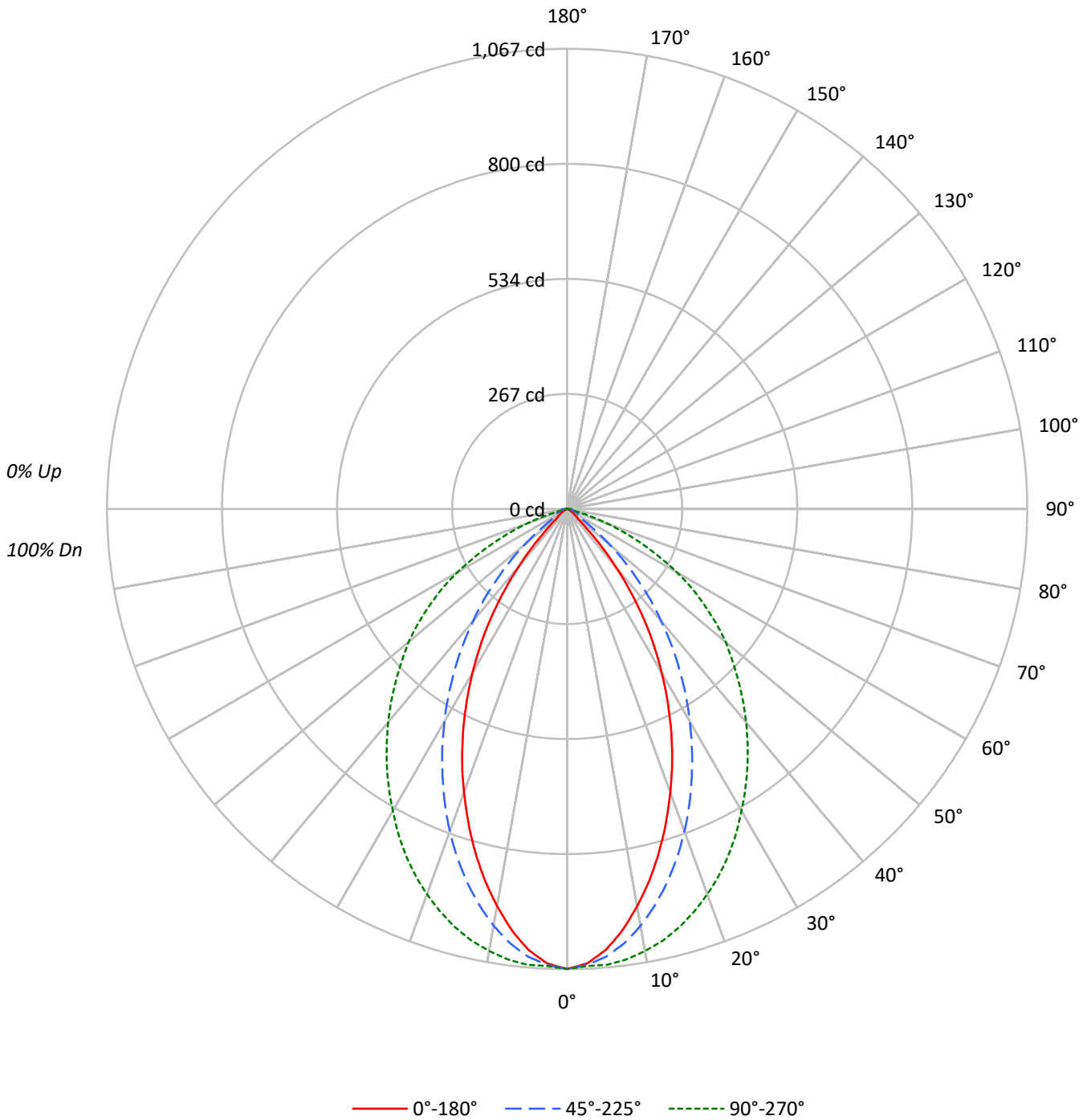
Lumens per Lamp: N/A
Luminaire Lumens: 1380.0 lumens
Efficiency: N/A
Efficacy: 33.0 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (Ain): 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	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					100			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80					80			
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59					59			
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53					53			
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49					49			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45					45			
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41					41			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7344	7344	7344
5°	7093	7200	7331
10°	6538	6861	7275
15°	5871	6387	7155
20°	5123	5827	6964
25°	4339	5195	6726
30°	3486	4523	6426
35°	2580	3815	6127
40°	1598	3047	5805
45°	623	2227	5459
50°	292	1397	5142
55°	214	598	4666
60°	147	424	4047
65°	96	445	3148
70°	95	405	1981
75°	125	410	630
80°	186	472	424
85°	284	940	656

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5459 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.8	7.1
10°-20°	253.4	18.4
20°-30°	322.8	23.4
30°-40°	300.5	21.8
40°-50°	206.8	15.0
50°-60°	117.1	8.5
60°-70°	55.3	4.0
70°-80°	17.3	1.3
80°-90°	9.0	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°	674.1	48.8
0°-40°	974.5	70.6
0°-60°	1298.4	94.1
0°-90°	1380.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1380.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1067	1067	1067	1067	1067	
5°	1026	1041	1042	1051	1061	95
15°	824	851	896	964	1004	229
25°	571	608	684	799	885	260
35°	307	350	454	609	729	190
45°	64	102	229	414	561	60
55°	18	20	50	238	389	16
65°	6	7	27	85	193	7
75°	5	11	15	17	24	5
85°	4	10	12	11	8	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1066.6	1066.6	1066.6	1066.6	1066.6
2.5°	1054.8	1065.5	1058.3	1059.5	1060.7
5°	1026.3	1040.6	1041.8	1051.2	1060.7
7.5°	984.9	1002.6	1015.7	1038.2	1053.6
10°	935.1	956.4	981.3	1018.1	1040.6
12.5°	881.8	906.6	941.0	993.2	1025.2
15°	823.7	850.9	896.0	963.5	1003.8
17.5°	762.1	792.9	847.4	928.0	978.9
20°	699.2	732.4	795.2	887.7	950.5
22.5°	636.4	670.8	740.7	843.8	919.7
25°	571.2	608.0	683.8	798.8	885.3
27.5°	504.9	542.8	627.0	752.6	848.6
30°	438.5	478.8	568.9	705.2	808.3
32.5°	373.3	413.6	512.0	657.8	769.2
35°	307.0	349.6	453.9	609.2	728.9
37.5°	240.6	286.8	397.0	559.4	687.4
40°	177.8	221.6	339.0	510.8	645.9
42.5°	118.5	161.2	286.8	462.2	603.2
45°	64.0	101.9	228.7	413.6	560.6
47.5°	34.4	54.5	179.0	366.2	519.1
50°	27.3	30.8	130.4	322.4	480.0
52.5°	22.5	24.9	85.3	280.9	435.0
55°	17.8	20.1	49.8	238.2	388.7
57.5°	14.2	16.6	32.0	197.9	343.7
60°	10.7	13.0	30.8	158.8	293.9
62.5°	8.3	9.5	28.4	122.1	241.8
65°	5.9	7.1	27.3	85.3	193.2
67.5°	4.7	5.9	24.9	54.5	144.6
70°	4.7	4.7	20.1	35.6	98.4
72.5°	4.7	8.3	17.8	23.7	59.3
75°	4.7	10.7	15.4	16.6	23.7
77.5°	4.7	11.9	13.0	13.0	13.0
80°	4.7	10.7	11.9	11.9	10.7
82.5°	4.7	9.5	10.7	11.9	9.5
85°	3.6	9.5	11.9	10.7	8.3
87.5°	3.6	9.5	10.7	9.5	5.9
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	0.00	0.00	0.00	0.00	0.00	16.17	17.46	16.54	17.78	18.09
	3H	0.00	0.00	0.00	0.00	0.18	16.89	18.03	17.27	18.36	18.73
	4H	0.00	0.30	0.00	0.65	1.03	16.92	17.98	17.32	18.33	18.71
	6H	0.49	1.47	0.91	1.84	2.23	16.87	17.84	17.28	18.21	18.61
	8H	1.13	2.06	1.56	2.45	2.85	16.84	17.77	17.27	18.16	18.56
	12H	1.73	2.61	2.16	2.99	3.42	16.83	17.71	17.26	18.09	18.52
4H	2H	0.69	1.75	1.09	2.10	2.48	15.96	17.03	16.37	17.38	17.76
	3H	1.49	2.36	1.91	2.76	3.17	16.72	17.59	17.13	17.99	18.40
	4H	2.50	3.28	2.94	3.70	4.14	16.75	17.52	17.18	17.94	18.39
	6H	3.78	4.45	4.25	4.90	5.36	16.73	17.39	17.19	17.84	18.31
	8H	4.36	4.98	4.83	5.43	5.90	16.71	17.34	17.18	17.78	18.25
	12H	4.93	5.48	5.41	5.96	6.44	16.72	17.27	17.21	17.75	18.23
8H	4H	3.92	4.54	4.39	4.99	5.46	16.63	17.26	17.10	17.70	18.17
	6H	5.48	5.99	5.99	6.49	6.97	16.62	17.13	17.12	17.63	18.11
	8H	6.28	6.73	6.80	7.25	7.74	16.63	17.09	17.16	17.61	18.10
	12H	7.12	7.52	7.64	8.02	8.59	16.70	17.10	17.21	17.59	18.17
12H	4H	4.14	4.69	4.63	5.17	5.65	16.59	17.14	17.08	17.62	18.10
	6H	5.86	6.31	6.38	6.83	7.32	16.58	17.03	17.10	17.55	18.04
	8H	6.85	7.25	7.36	7.75	8.32	16.62	17.03	17.14	17.52	18.09