

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: P1061485

Luminaire Tested: S125RDRP-S1090D930-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-46)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1090D930-X4F0-XX-UDD-WVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

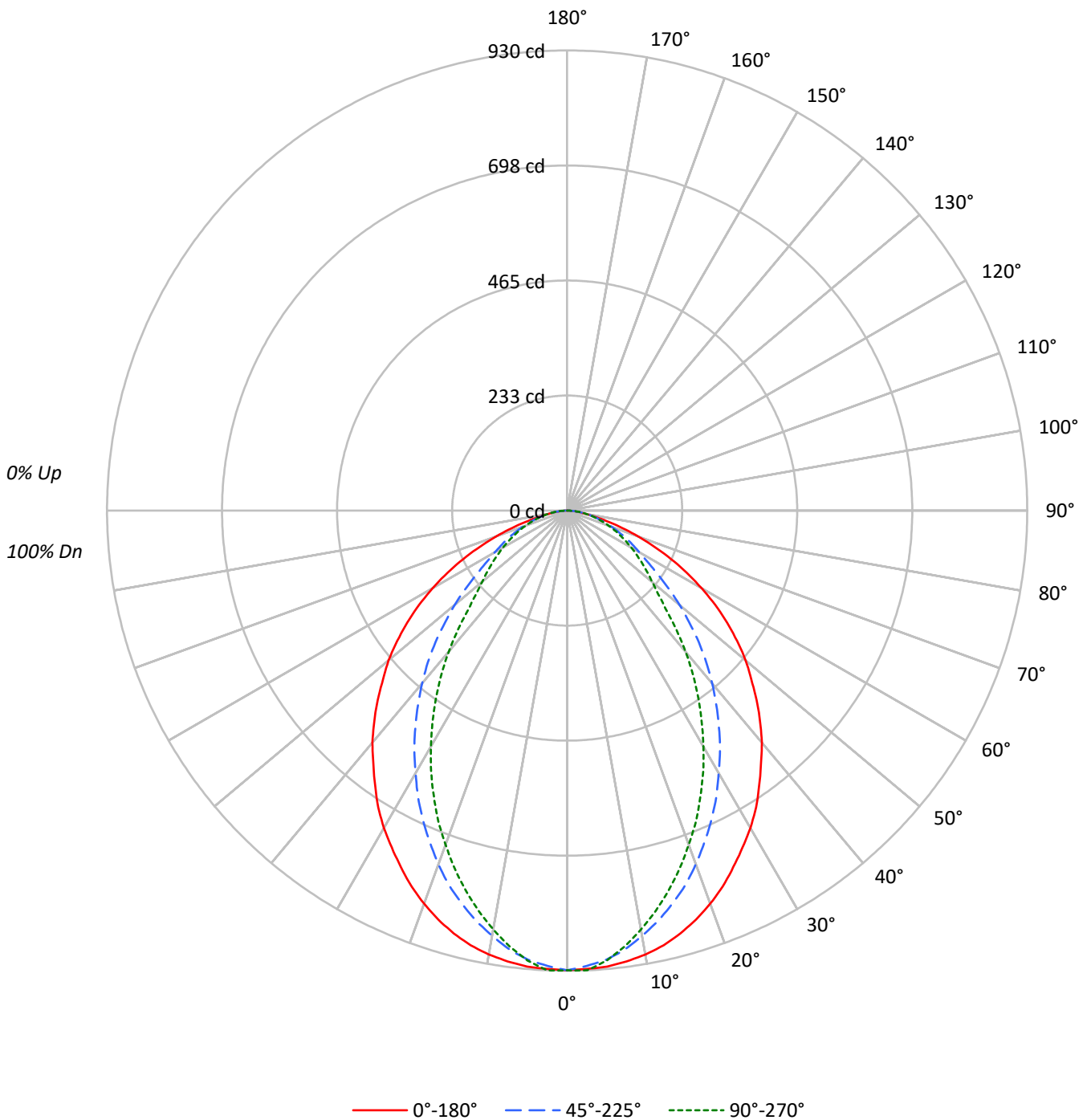
Lumens per Lamp: N/A
Luminaire Lumens: 1760.1 lumens
Efficiency: N/A
Efficacy: 50.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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	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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87													87															
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75													75															
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65													65															
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57													57															
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50													50															
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45													45															
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40													40															
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36													36															
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33													33															
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30													30															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6397	6397	6397
5°	6394	6296	6310
10°	6369	6101	6009
15°	6306	5861	5659
20°	6194	5573	5263
25°	6039	5242	4844
30°	5887	4869	4379
35°	5690	4494	3883
40°	5504	4099	3346
45°	5275	3664	2741
50°	5046	3177	2399
55°	4734	2652	2216
60°	4320	2320	2070
65°	3780	2120	1922
70°	3066	1908	1788
75°	2200	1745	1663
80°	1519	1558	1558
85°	1114	1351	1438

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5275 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	4.9
10°-20°	233.7	13.3
20°-30°	323.0	18.3
30°-40°	344.0	19.5
40°-50°	302.2	17.2
50°-60°	229.1	13.0
60°-70°	148.8	8.5
70°-80°	73.7	4.2
80°-90°	19.3	1.1
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°	643.0	36.5
0°-40°	987.0	56.1
0°-60°	1518.3	86.3
0°-90°	1760.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1760.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	929	929	929	929	929	
5°	925	923	911	914	913	88
15°	885	865	822	803	794	249
25°	795	752	690	655	638	366
35°	677	614	535	486	462	424
45°	542	466	376	309	282	418
55°	394	317	221	191	185	352
65°	232	172	130	120	118	229
75°	83	73	66	64	62	92
85°	14	16	17	17	18	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	929.1	929.1	929.1	929.1	929.1
2.5°	927.1	929.1	921.0	928.1	930.1
5°	925.1	923.1	911.0	914.0	913.0
7.5°	919.0	915.0	894.8	892.8	888.8
10°	911.0	900.9	872.6	865.6	859.5
12.5°	899.9	883.7	849.4	835.3	828.2
15°	884.7	864.6	822.2	803.0	793.9
17.5°	866.6	838.3	793.9	767.7	757.6
20°	845.4	812.1	760.6	730.4	718.3
22.5°	822.2	782.8	725.3	693.1	679.9
25°	794.9	751.6	690.0	654.7	637.6
27.5°	767.7	719.3	652.7	613.4	595.2
30°	740.5	685.0	612.4	570.0	550.8
32.5°	711.2	649.7	575.0	528.6	506.4
35°	676.9	614.4	534.7	486.2	462.0
37.5°	643.6	577.0	495.3	440.9	417.6
40°	612.4	541.7	456.0	396.5	372.3
42.5°	577.0	504.4	416.6	354.1	326.9
45°	541.7	466.1	376.3	308.7	281.5
47.5°	504.4	429.8	333.9	267.3	249.2
50°	471.1	392.4	296.6	236.1	224.0
52.5°	432.8	356.1	258.3	211.9	203.8
55°	394.4	316.8	220.9	190.7	184.6
57.5°	355.1	281.5	191.7	172.5	166.5
60°	313.7	245.1	168.5	153.3	150.3
62.5°	272.4	207.8	148.3	137.2	133.2
65°	232.0	172.5	130.1	120.0	118.0
67.5°	190.7	140.2	112.0	104.9	103.9
70°	152.3	114.0	94.8	90.8	88.8
72.5°	117.0	90.8	79.7	76.7	75.7
75°	82.7	72.6	65.6	63.6	62.5
77.5°	55.5	55.5	52.5	50.4	51.4
80°	38.3	40.4	39.3	39.3	39.3
82.5°	25.2	27.2	28.2	28.2	28.2
85°	14.1	16.1	17.1	17.1	18.2
87.5°	5.0	6.1	7.1	8.1	8.1
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	17.00	18.49	17.37	18.81	19.12	13.24	14.73	13.61	15.05	15.36
	3H	18.31	19.65	18.69	19.98	20.34	14.83	16.16	15.20	16.49	16.85
	4H	18.68	19.93	19.08	20.28	20.66	15.43	16.68	15.83	17.03	17.41
	6H	18.86	20.01	19.27	20.38	20.77	15.90	17.06	16.31	17.42	17.81
	8H	18.89	19.99	19.32	20.38	20.79	16.06	17.16	16.49	17.55	17.95
	12H	18.91	19.96	19.34	20.34	20.77	16.17	17.22	16.60	17.61	18.04
4H	2H	17.11	18.37	17.51	18.72	19.09	13.90	15.16	14.30	15.51	15.88
	3H	18.60	19.64	19.01	20.04	20.44	15.69	16.72	16.10	17.12	17.53
	4H	19.08	20.01	19.51	20.42	20.86	16.40	17.34	16.84	17.75	18.19
	6H	19.36	20.17	19.82	20.62	21.08	16.99	17.80	17.45	18.25	18.71
	8H	19.43	20.19	19.89	20.63	21.10	17.20	17.95	17.66	18.40	18.87
	12H	19.47	20.15	19.95	20.63	21.10	17.35	18.03	17.83	18.51	18.98
8H	4H	19.16	19.92	19.62	20.36	20.83	16.71	17.47	17.18	17.92	18.38
	6H	19.52	20.15	20.02	20.64	21.12	17.42	18.04	17.92	18.54	19.01
	8H	19.64	20.20	20.15	20.71	21.20	17.70	18.26	18.21	18.77	19.26
	12H	19.72	20.22	20.24	20.71	21.28	17.93	18.42	18.44	18.92	19.48
12H	4H	19.15	19.83	19.64	20.31	20.78	16.74	17.42	17.22	17.90	18.37
	6H	19.52	20.09	20.04	20.60	21.09	17.47	18.03	17.99	18.54	19.03
	8H	19.68	20.18	20.19	20.67	21.24	17.81	18.30	18.32	18.79	19.36