

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: P1061437

Luminaire Tested: S125RDRP-S1090D830-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061437
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1090D830-X4F0-XX-UDD-SVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

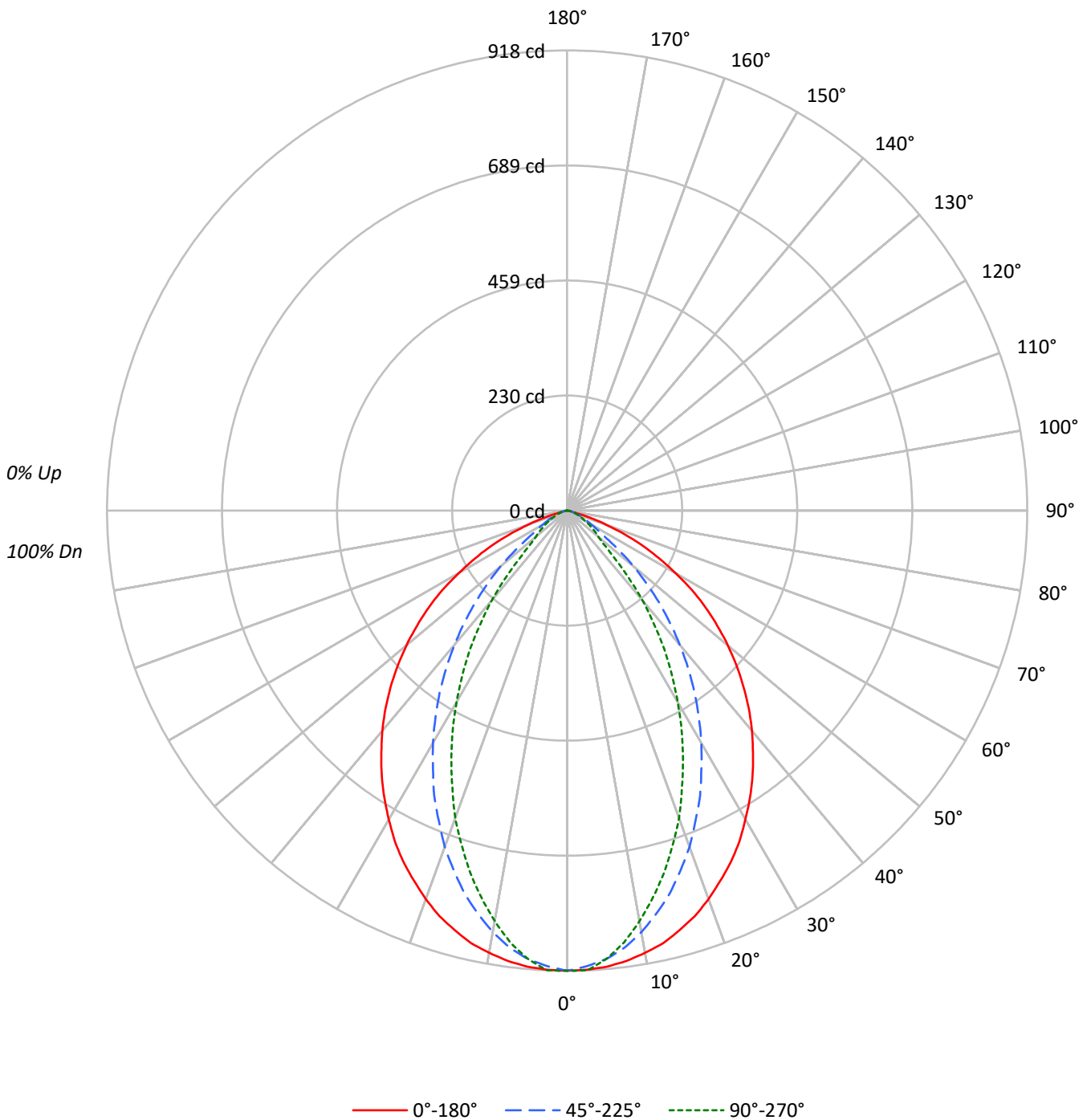
Lumens per Lamp: N/A
Luminaire Lumens: 1327.5 lumens
Efficiency: N/A
Efficacy: 37.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	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	97	98	96	95	95	93	92	90					90			
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80					80			
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71					71			
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63					63			
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57					57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6320	6320	6320
5°	6312	6207	6207
10°	6262	5969	5814
15°	6177	5636	5329
20°	6042	5230	4785
25°	5875	4767	4156
30°	5656	4256	3505
35°	5421	3725	2843
40°	5157	3145	2107
45°	4849	2521	1272
50°	4485	1849	874
55°	4047	1134	727
60°	3437	771	578
65°	2717	590	456
70°	1713	423	376
75°	559	311	311
80°	186	230	278
85°	95	182	182

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4849 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	6.4
10°-20°	224.2	16.9
20°-30°	294.9	22.2
30°-40°	289.8	21.8
40°-50°	219.2	16.5
50°-60°	132.9	10.0
60°-70°	62.7	4.7
70°-80°	16.4	1.2
80°-90°	2.5	0.2
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°	604.0	45.5
0°-40°	893.7	67.3
0°-60°	1245.8	93.9
0°-90°	1327.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1327.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	918	918	918	918	918	
5°	913	911	898	899	898	87
15°	867	843	791	760	748	244
25°	773	715	628	569	547	355
35°	645	559	443	365	338	403
45°	498	392	259	164	131	383
55°	337	231	94	64	61	300
65°	167	85	36	30	28	164
75°	21	14	12	12	12	33
85°	1	1	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	917.9	917.9	917.9	917.9	917.9
2.5°	916.7	916.7	909.7	917.9	917.9
5°	913.2	910.9	898.0	899.2	898.0
7.5°	906.2	901.5	879.4	873.6	868.9
10°	895.7	886.4	853.7	839.7	831.6
12.5°	884.1	867.7	823.4	803.6	790.7
15°	866.6	843.2	790.7	760.4	747.6
17.5°	847.9	814.1	752.3	716.1	699.8
20°	824.6	784.9	713.8	669.5	653.1
22.5°	798.9	752.3	669.5	620.5	598.3
25°	773.3	714.9	627.5	569.2	547.0
27.5°	744.1	677.6	579.6	519.0	494.5
30°	711.4	640.3	535.3	472.4	440.9
32.5°	678.8	601.8	488.7	419.9	388.4
35°	645.0	558.7	443.2	365.1	338.2
37.5°	608.8	517.8	396.5	314.9	283.4
40°	573.8	477.0	349.9	263.6	234.4
42.5°	536.5	436.2	303.2	213.4	180.8
45°	498.0	391.9	258.9	164.4	130.6
47.5°	458.4	352.2	214.6	121.3	98.0
50°	418.7	310.2	172.6	89.8	81.6
52.5°	377.9	269.4	130.6	74.6	71.1
55°	337.1	230.9	94.5	64.1	60.6
57.5°	295.1	188.9	71.1	54.8	51.3
60°	249.6	151.6	56.0	45.5	42.0
62.5°	207.6	119.0	45.5	37.3	35.0
65°	166.8	85.1	36.2	30.3	28.0
67.5°	124.8	57.1	28.0	23.3	23.3
70°	85.1	37.3	21.0	18.7	18.7
72.5°	51.3	22.2	15.2	15.2	15.2
75°	21.0	14.0	11.7	11.7	11.7
77.5°	7.0	8.2	8.2	9.3	9.3
80°	4.7	4.7	5.8	7.0	7.0
82.5°	2.3	3.5	3.5	4.7	4.7
85°	1.2	1.2	2.3	2.3	2.3
87.5°	0.0	0.0	0.0	1.2	1.2
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	15.73	17.07	16.10	17.38	17.69	6.39	7.72	6.75	8.03	8.35
	3H	16.44	17.62	16.82	17.95	18.31	7.17	8.35	7.55	8.68	9.04
	4H	16.46	17.55	16.86	17.90	18.29	7.42	8.52	7.82	8.87	9.25
	6H	16.39	17.39	16.80	17.76	18.16	7.60	8.60	8.01	8.97	9.37
	8H	16.35	17.30	16.78	17.69	18.09	7.64	8.60	8.07	8.99	9.39
	12H	16.30	17.21	16.74	17.60	18.03	7.65	8.56	8.08	8.94	9.37
4H	2H	15.56	16.66	15.97	17.01	17.39	6.88	7.97	7.28	8.32	8.71
	3H	16.31	17.20	16.72	17.61	18.01	7.79	8.68	8.20	9.08	9.48
	4H	16.33	17.12	16.76	17.54	17.99	8.10	8.90	8.54	9.32	9.76
	6H	16.27	16.95	16.73	17.40	17.86	8.36	9.04	8.82	9.49	9.96
	8H	16.22	16.85	16.69	17.30	17.77	8.43	9.06	8.90	9.51	9.98
	12H	16.17	16.74	16.66	17.22	17.69	8.45	9.01	8.94	9.50	9.97
8H	4H	16.21	16.85	16.68	17.30	17.77	8.21	8.85	8.68	9.30	9.77
	6H	16.14	16.66	16.64	17.15	17.63	8.53	9.05	9.03	9.55	10.03
	8H	16.08	16.55	16.61	17.06	17.56	8.64	9.10	9.16	9.62	10.11
	12H	16.04	16.45	16.56	16.95	17.52	8.70	9.11	9.21	9.61	10.18
12H	4H	16.17	16.73	16.65	17.21	17.69	8.19	8.75	8.67	9.23	9.71
	6H	16.08	16.55	16.60	17.06	17.55	8.50	8.97	9.02	9.48	9.98
	8H	16.04	16.46	16.56	16.95	17.52	8.64	9.05	9.16	9.55	10.12