

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: P1061482

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061482
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-S1090D930-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, 90 CRI LEDS
Ballast/Driver: -

Summary

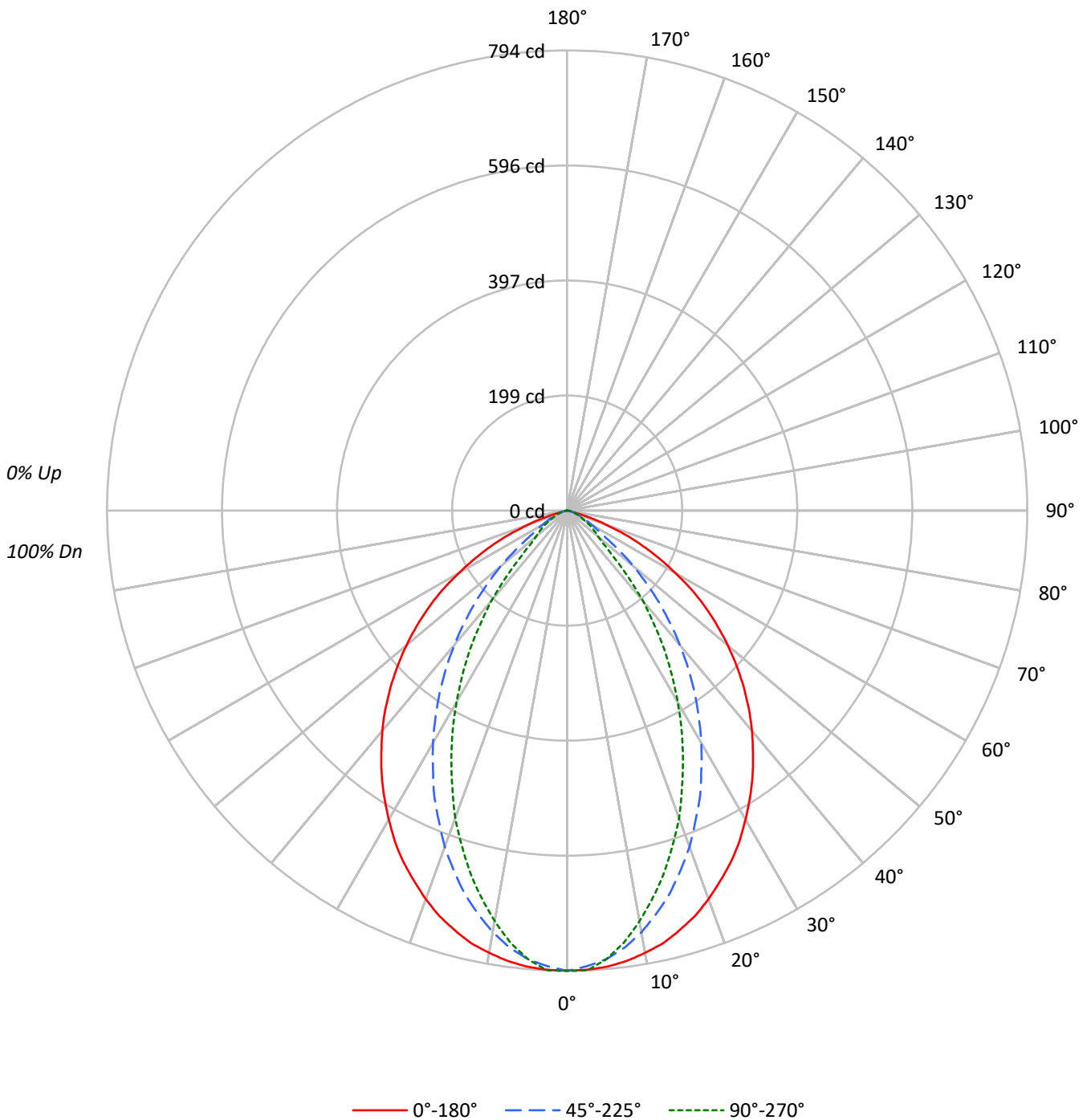
Lumens per Lamp: N/A
Luminaire Lumens: 1148.2 lumens
Efficiency: N/A
Efficacy: 32.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5467	5467	5467
5°	5459	5369	5369
10°	5417	5163	5029
15°	5343	4876	4610
20°	5226	4524	4140
25°	5082	4124	3594
30°	4893	3682	3031
35°	4689	3223	2459
40°	4462	2721	1823
45°	4195	2181	1100
50°	3880	1599	756
55°	3500	981	630
60°	2973	666	500
65°	2351	510	394
70°	1482	366	324
75°	484	269	269
80°	159	198	242
85°	79	158	158

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4195 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.4	6.4
10°-20°	193.9	16.9
20°-30°	255.1	22.2
30°-40°	250.6	21.8
40°-50°	189.6	16.5
50°-60°	115.0	10.0
60°-70°	54.3	4.7
70°-80°	14.2	1.2
80°-90°	2.1	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°	522.4	45.5
0°-40°	773.1	67.3
0°-60°	1077.7	93.9
0°-90°	1148.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1148.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	794	794	794	794	794	
5°	790	788	777	778	777	75
15°	750	729	684	658	647	211
25°	669	618	543	492	473	307
35°	558	483	383	316	293	348
45°	431	339	224	142	113	332
55°	292	200	82	56	52	260
65°	144	74	31	26	24	142
75°	18	12	10	10	10	28
85°	1	1	2	2	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	794.0	794.0	794.0	794.0	794.0
2.5°	793.0	793.0	786.9	794.0	794.0
5°	789.9	787.9	776.8	777.8	776.8
7.5°	783.9	779.8	760.7	755.6	751.6
10°	774.8	766.7	738.5	726.4	719.3
12.5°	764.7	750.6	712.2	695.1	684.0
15°	749.6	729.4	684.0	657.8	646.7
17.5°	733.4	704.2	650.7	619.4	605.3
20°	713.3	679.0	617.4	579.1	565.0
22.5°	691.1	650.7	579.1	536.7	517.5
25°	668.9	618.4	542.8	492.3	473.1
27.5°	643.6	586.1	501.4	448.9	427.8
30°	615.4	553.9	463.1	408.6	381.3
32.5°	587.1	520.6	422.7	363.2	335.9
35°	557.9	483.2	383.4	315.8	292.6
37.5°	526.6	447.9	343.0	272.4	245.1
40°	496.4	412.6	302.7	228.0	202.8
42.5°	464.1	377.3	262.3	184.6	156.4
45°	430.8	339.0	224.0	142.2	113.0
47.5°	396.5	304.7	185.6	104.9	84.7
50°	362.2	268.4	149.3	77.7	70.6
52.5°	326.9	233.0	113.0	64.6	61.5
55°	291.6	199.8	81.7	55.5	52.5
57.5°	255.2	163.4	61.5	47.4	44.4
60°	215.9	131.1	48.4	39.3	36.3
62.5°	179.6	102.9	39.3	32.3	30.3
65°	144.3	73.6	31.3	26.2	24.2
67.5°	107.9	49.4	24.2	20.2	20.2
70°	73.6	32.3	18.2	16.1	16.1
72.5°	44.4	19.2	13.1	13.1	13.1
75°	18.2	12.1	10.1	10.1	10.1
77.5°	6.1	7.1	7.1	8.1	8.1
80°	4.0	4.0	5.0	6.1	6.1
82.5°	2.0	3.0	3.0	4.0	4.0
85°	1.0	1.0	2.0	2.0	2.0
87.5°	0.0	0.0	0.0	1.0	1.0
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	15.23	16.56	15.59	16.87	17.19	5.88	7.22	6.25	7.53	7.84
	3H	15.94	17.11	16.31	17.44	17.81	6.67	7.84	7.05	8.17	8.54
	4H	15.95	17.05	16.35	17.40	17.78	6.92	8.01	7.32	8.36	8.74
	6H	15.88	16.89	16.30	17.26	17.65	7.10	8.10	7.51	8.47	8.87
	8H	15.84	16.79	16.27	17.18	17.59	7.14	8.09	7.57	8.48	8.89
	12H	15.80	16.71	16.23	17.09	17.52	7.15	8.06	7.58	8.44	8.87
4H	2H	15.06	16.16	15.46	16.51	16.89	6.37	7.47	6.78	7.82	8.20
	3H	15.81	16.70	16.22	17.10	17.51	7.28	8.17	7.69	8.58	8.98
	4H	15.82	16.62	16.26	17.04	17.48	7.59	8.39	8.03	8.81	9.25
	6H	15.76	16.45	16.23	16.89	17.36	7.86	8.54	8.32	8.99	9.45
	8H	15.71	16.35	16.18	16.80	17.27	7.92	8.56	8.39	9.01	9.48
	12H	15.67	16.23	16.15	16.71	17.19	7.95	8.51	8.43	8.99	9.47
8H	4H	15.71	16.35	16.18	16.79	17.26	7.71	8.34	8.18	8.79	9.26
	6H	15.63	16.15	16.14	16.65	17.13	8.03	8.55	8.53	9.04	9.53
	8H	15.58	16.04	16.10	16.56	17.05	8.13	8.60	8.65	9.11	9.61
	12H	15.54	15.95	16.05	16.44	17.02	8.19	8.60	8.71	9.10	9.67
12H	4H	15.66	16.23	16.15	16.71	17.18	7.68	8.24	8.16	8.72	9.20
	6H	15.57	16.04	16.10	16.56	17.05	8.00	8.47	8.52	8.98	9.47
	8H	15.54	15.95	16.05	16.45	17.02	8.14	8.55	8.65	9.04	9.61