

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: P1061488

Luminaire Tested: S125RDRP-S1090D935-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061488
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-48)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1090D935-X4F0-XX-UDD-BVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

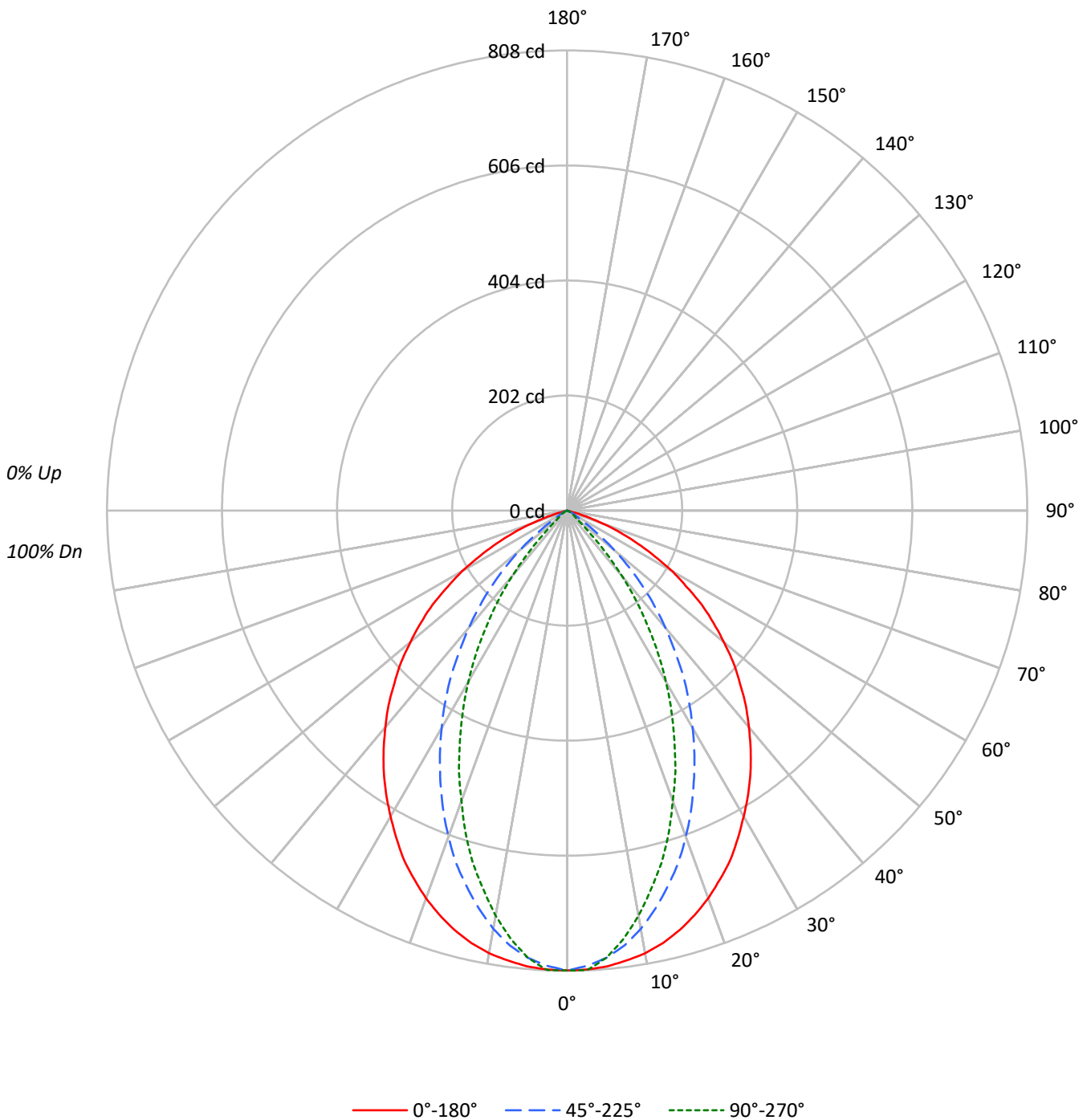
Lumens per Lamp: N/A
Luminaire Lumens: 1043.2 lumens
Efficiency: N/A
Efficacy: 29.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5560	5560	5560
5°	5552	5448	5448
10°	5519	5214	5050
15°	5437	4868	4564
20°	5308	4465	3973
25°	5147	3998	3383
30°	4929	3506	2761
35°	4719	2991	2069
40°	4462	2413	1340
45°	4180	1826	581
50°	3845	1164	216
55°	3466	511	154
60°	2934	220	103
65°	2222	138	52
70°	1351	64	22
75°	285	29	29
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4180 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.4	7.1
10°-20°	194.1	18.6
20°-30°	249.2	23.9
30°-40°	234.5	22.5
40°-50°	164.0	15.7
50°-60°	87.6	8.4
60°-70°	34.9	3.3
70°-80°	4.5	0.4
80°-90°	0.0	0.0
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°	517.6	49.6
0°-40°	752.2	72.1
0°-60°	1003.8	96.2
0°-90°	1043.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1043.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	808	808	808	808	808	
5°	803	801	788	790	788	76
15°	763	738	683	651	640	215
25°	678	618	526	469	445	311
35°	561	472	356	275	246	350
45°	429	322	188	91	60	331
55°	289	177	43	15	13	256
65°	136	54	8	4	3	136
75°	11	3	1	1	1	21
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	807.5	807.5	807.5	807.5	807.5
2.5°	806.5	807.5	800.1	806.5	807.5
5°	803.3	801.1	788.3	790.5	788.3
7.5°	796.9	791.5	770.2	762.8	758.5
10°	789.4	777.7	745.7	729.7	722.3
12.5°	777.7	760.6	715.9	691.4	680.7
15°	762.8	738.3	682.9	650.9	640.3
17.5°	744.7	712.7	648.8	609.4	593.4
20°	724.4	681.8	609.4	562.5	542.2
22.5°	701.0	652.0	568.9	516.7	496.4
25°	677.5	617.9	526.3	468.7	445.3
27.5°	648.8	582.7	483.7	421.9	396.3
30°	620.0	547.6	441.0	373.9	347.3
32.5°	591.3	510.3	398.4	323.9	297.2
35°	561.4	471.9	355.8	274.9	246.1
37.5°	529.5	433.6	310.0	228.0	198.2
40°	496.4	396.3	268.5	182.2	149.1
42.5°	464.5	359.0	226.9	137.4	101.2
45°	429.3	321.7	187.5	90.6	59.7
47.5°	396.3	285.5	147.0	52.2	30.9
50°	359.0	248.2	108.7	27.7	20.2
52.5°	323.9	212.0	72.4	18.1	16.0
55°	288.7	176.8	42.6	14.9	12.8
57.5°	248.2	142.8	23.4	11.7	9.6
60°	213.1	111.9	16.0	8.5	7.5
62.5°	172.6	82.0	11.7	6.4	5.3
65°	136.4	54.3	8.5	4.3	3.2
67.5°	101.2	32.0	5.3	2.1	2.1
70°	67.1	17.0	3.2	1.1	1.1
72.5°	35.2	7.5	2.1	1.1	1.1
75°	10.7	3.2	1.1	1.1	1.1
77.5°	0.0	1.1	0.0	0.0	1.1
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
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	14.91	16.17	15.27	16.48	16.80	0.00	0.00	0.00	0.00	0.00
	3H	15.49	16.60	15.87	16.93	17.30	0.00	0.00	0.00	0.00	0.00
	4H	15.45	16.49	15.86	16.84	17.22	0.00	0.00	0.00	0.00	0.00
	6H	15.37	16.31	15.78	16.68	17.08	0.00	0.00	0.00	0.00	0.00
	8H	15.32	16.22	15.75	16.61	17.01	0.00	0.00	0.00	0.00	0.00
	12H	15.28	16.13	15.71	16.51	16.94	0.00	0.00	0.00	0.00	0.00
4H	2H	14.68	15.71	15.08	16.06	16.45	0.00	0.00	0.00	0.00	0.00
	3H	15.27	16.11	15.68	16.51	16.91	0.00	0.00	0.00	0.00	0.00
	4H	15.22	15.96	15.66	16.38	16.83	0.00	0.00	0.00	0.00	0.00
	6H	15.13	15.77	15.60	16.22	16.69	0.00	0.00	0.00	0.00	0.00
	8H	15.07	15.67	15.54	16.11	16.59	0.00	0.00	0.00	0.00	0.00
	12H	15.02	15.54	15.51	16.03	16.50	0.00	0.00	0.00	0.00	0.00
8H	4H	15.07	15.67	15.54	16.12	16.59	0.00	0.00	0.00	0.00	0.00
	6H	14.97	15.45	15.47	15.95	16.43	0.00	0.00	0.00	0.00	0.00
	8H	14.90	15.33	15.42	15.85	16.34	0.00	0.00	0.00	0.00	0.00
	12H	14.85	15.23	15.37	15.73	16.30	0.00	0.00	0.00	0.00	0.00
12H	4H	15.02	15.54	15.51	16.03	16.50	0.00	0.00	0.00	0.00	0.00
	6H	14.90	15.33	15.42	15.85	16.34	0.00	0.00	0.00	0.00	0.00
	8H	14.85	15.23	15.37	15.73	16.30	0.00	0.00	0.00	0.00	0.00