

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: P1061470

Luminaire Tested: S125RDRP-S1090D927-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061470
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-S1090D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

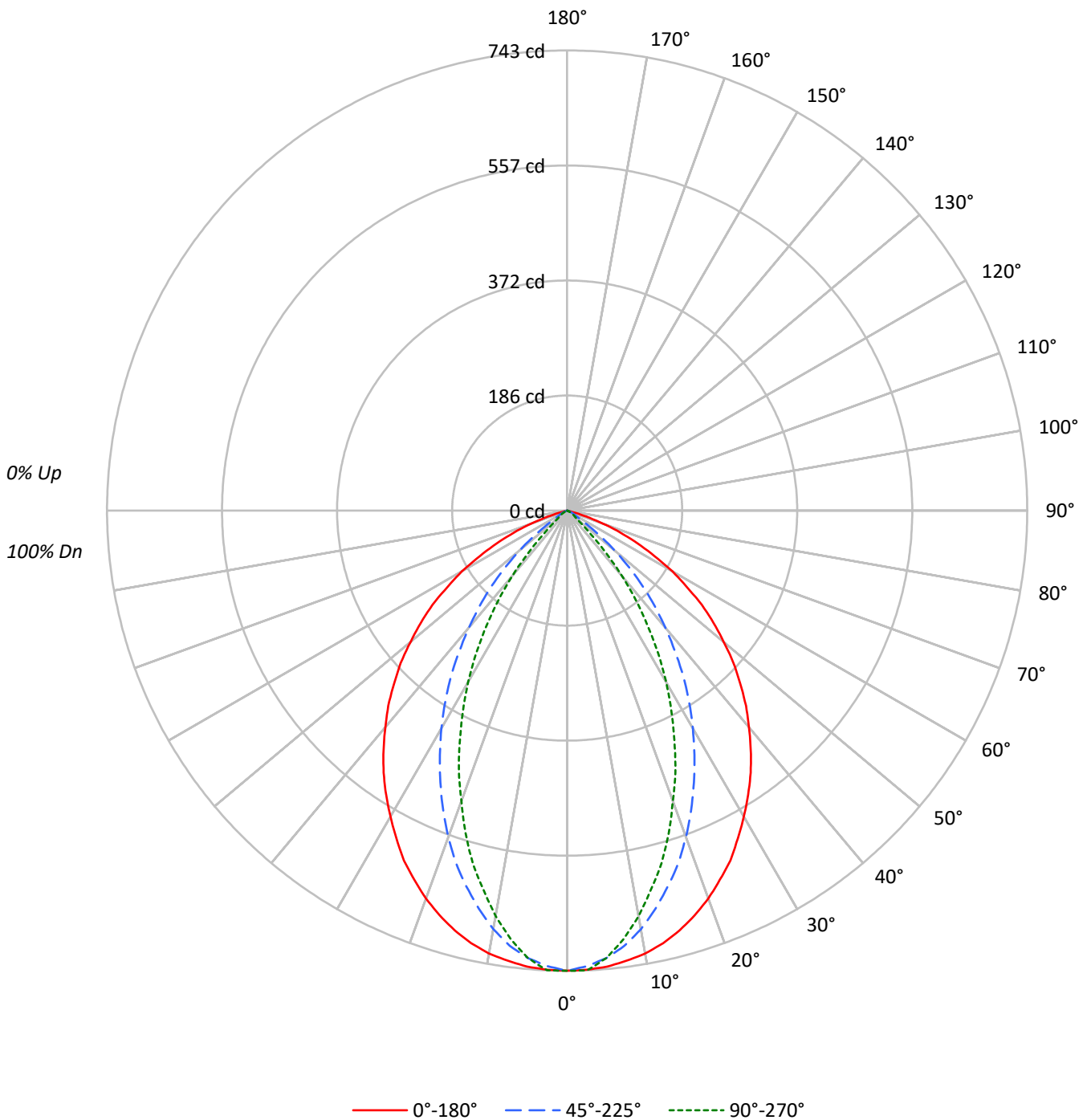
Lumens per Lamp: N/A
Luminaire Lumens: 959.8 lumens
Efficiency: N/A
Efficacy: 27.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	5116	5116	5116
5°	5108	5013	5013
10°	5078	4797	4647
15°	5003	4479	4199
20°	4884	4108	3655
25°	4736	3678	3112
30°	4536	3226	2540
35°	4342	2752	1903
40°	4106	2220	1233
45°	3846	1680	535
50°	3538	1071	199
55°	3188	471	142
60°	2699	202	95
65°	2045	127	47
70°	1244	58	20
75°	261	27	27
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3846 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	7.1
10°-20°	178.5	18.6
20°-30°	229.2	23.9
30°-40°	215.8	22.5
40°-50°	150.9	15.7
50°-60°	80.6	8.4
60°-70°	32.1	3.3
70°-80°	4.2	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°	476.3	49.6
0°-40°	692.1	72.1
0°-60°	923.5	96.2
0°-90°	959.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	959.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	743	743	743	743	743	
5°	739	737	725	727	725	70
15°	702	679	628	599	589	197
25°	623	568	484	431	410	286
35°	517	434	327	253	226	322
45°	395	296	172	83	55	305
55°	266	163	39	14	12	235
65°	126	50	8	4	3	125
75°	10	3	1	1	1	19
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°	743.0	743.0	743.0	743.0	743.0
2.5°	742.0	743.0	736.1	742.0	743.0
5°	739.1	737.1	725.3	727.3	725.3
7.5°	733.2	728.3	708.7	701.8	697.9
10°	726.3	715.5	686.1	671.4	664.6
12.5°	715.5	699.8	658.7	636.1	626.3
15°	701.8	679.3	628.3	598.9	589.1
17.5°	685.1	655.7	596.9	560.7	546.0
20°	666.5	627.3	560.7	517.5	498.9
22.5°	645.0	599.9	523.4	475.4	456.8
25°	623.4	568.5	484.2	431.3	409.7
27.5°	596.9	536.2	445.0	388.1	364.6
30°	570.5	503.8	405.8	344.0	319.5
32.5°	544.0	469.5	366.6	298.0	273.5
35°	516.6	434.2	327.4	252.9	226.4
37.5°	487.1	398.9	285.2	209.8	182.3
40°	456.8	364.6	247.0	167.6	137.2
42.5°	427.4	330.3	208.8	126.4	93.1
45°	395.0	296.0	172.5	83.3	54.9
47.5°	364.6	262.7	135.3	48.0	28.4
50°	330.3	228.4	100.0	25.5	18.6
52.5°	298.0	195.1	66.7	16.7	14.7
55°	265.6	162.7	39.2	13.7	11.8
57.5°	228.4	131.3	21.6	10.8	8.8
60°	196.0	102.9	14.7	7.8	6.9
62.5°	158.8	75.5	10.8	5.9	4.9
65°	125.5	50.0	7.8	3.9	2.9
67.5°	93.1	29.4	4.9	2.0	2.0
70°	61.8	15.7	2.9	1.0	1.0
72.5°	32.3	6.9	2.0	1.0	1.0
75°	9.8	2.9	1.0	1.0	1.0
77.5°	0.0	1.0	0.0	0.0	1.0
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	14.61	15.88	14.98	16.19	16.50	0.00	0.00	0.00	0.00	0.00
	3H	15.20	16.31	15.58	16.64	17.01	0.00	0.00	0.00	0.00	0.00
	4H	15.16	16.19	15.57	16.55	16.93	0.00	0.00	0.00	0.00	0.00
	6H	15.08	16.02	15.49	16.39	16.79	0.00	0.00	0.00	0.00	0.00
	8H	15.03	15.92	15.46	16.31	16.72	0.00	0.00	0.00	0.00	0.00
	12H	14.98	15.84	15.42	16.22	16.65	0.00	0.00	0.00	0.00	0.00
4H	2H	14.39	15.42	14.79	15.77	16.15	0.00	0.00	0.00	0.00	0.00
	3H	14.98	15.81	15.39	16.22	16.62	0.00	0.00	0.00	0.00	0.00
	4H	14.93	15.67	15.36	16.09	16.54	0.00	0.00	0.00	0.00	0.00
	6H	14.84	15.48	15.31	15.93	16.39	0.00	0.00	0.00	0.00	0.00
	8H	14.78	15.37	15.25	15.82	16.30	0.00	0.00	0.00	0.00	0.00
	12H	14.73	15.25	15.22	15.74	16.21	0.00	0.00	0.00	0.00	0.00
8H	4H	14.78	15.38	15.25	15.82	16.30	0.00	0.00	0.00	0.00	0.00
	6H	14.67	15.16	15.18	15.65	16.14	0.00	0.00	0.00	0.00	0.00
	8H	14.61	15.04	15.13	15.56	16.05	0.00	0.00	0.00	0.00	0.00
	12H	14.56	14.94	15.08	15.44	16.01	0.00	0.00	0.00	0.00	0.00
12H	4H	14.73	15.25	15.22	15.74	16.21	0.00	0.00	0.00	0.00	0.00
	6H	14.61	15.04	15.13	15.56	16.05	0.00	0.00	0.00	0.00	0.00
	8H	14.56	14.94	15.08	15.44	16.01	0.00	0.00	0.00	0.00	0.00