

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: P1061491

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061491
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-S1090D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

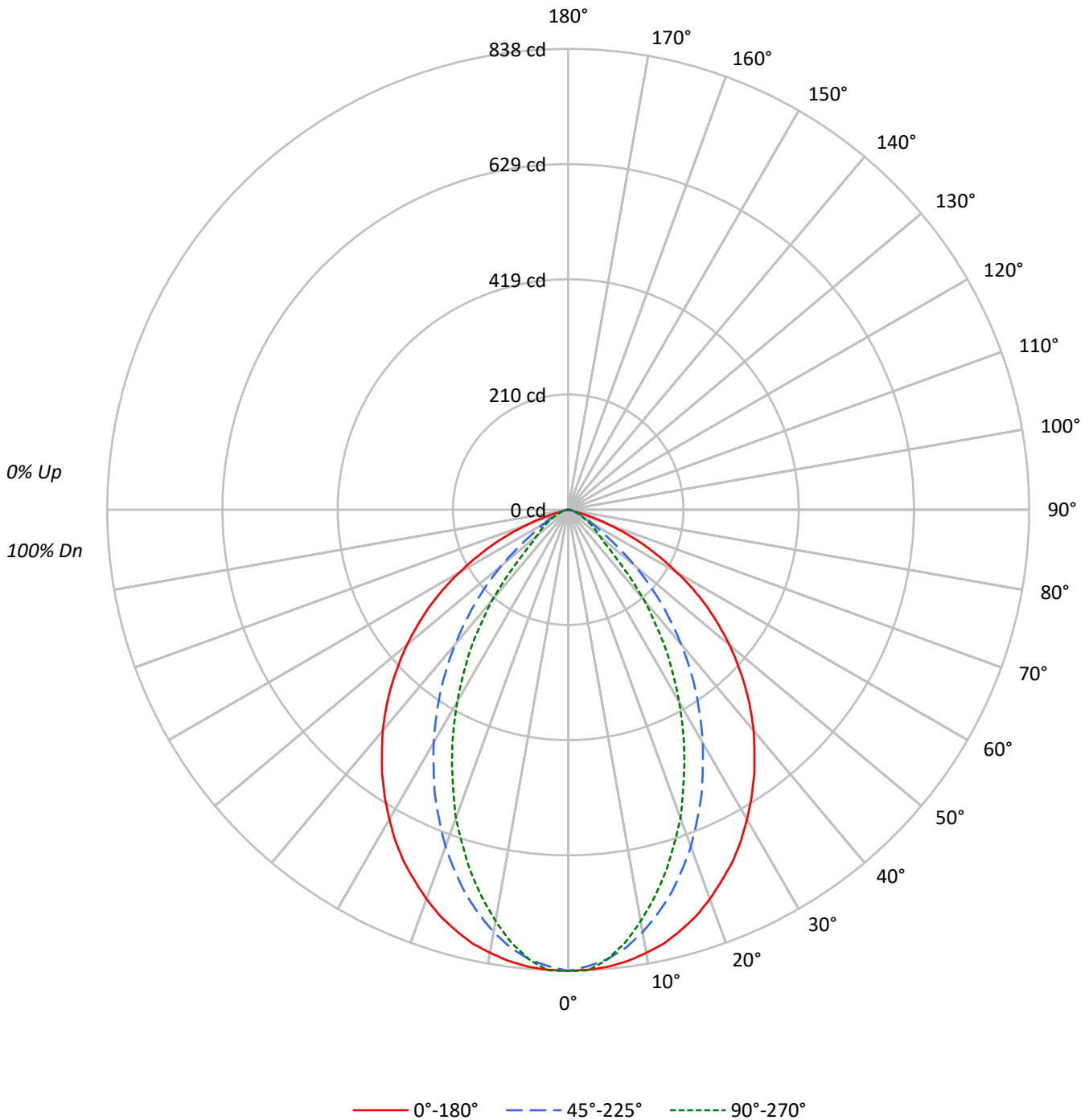
Lumens per Lamp: N/A
Luminaire Lumens: 1212.6 lumens
Efficiency: N/A
Efficacy: 34.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	5773	5773	5773
5°	5766	5670	5670
10°	5720	5453	5311
15°	5643	5149	4868
20°	5519	4777	4371
25°	5367	4355	3796
30°	5167	3888	3202
35°	4952	3402	2597
40°	4712	2873	1924
45°	4429	2303	1162
50°	4097	1689	799
55°	3696	1036	665
60°	3140	704	529
65°	2483	538	417
70°	1566	387	342
75°	511	285	285
80°	170	210	254
85°	87	166	166

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4429 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.6	6.4
10°-20°	204.8	16.9
20°-30°	269.4	22.2
30°-40°	264.7	21.8
40°-50°	200.2	16.5
50°-60°	121.4	10.0
60°-70°	57.3	4.7
70°-80°	15.0	1.2
80°-90°	2.3	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°	551.7	45.5
0°-40°	816.4	67.3
0°-60°	1138.1	93.9
0°-90°	1212.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1212.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	838	838	838	838	838	
5°	834	832	820	821	820	79
15°	792	770	722	695	683	223
25°	706	653	573	520	500	325
35°	589	510	405	334	309	368
45°	455	358	236	150	119	350
55°	308	211	86	59	55	274
65°	152	78	33	28	26	150
75°	19	13	11	11	11	30
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°	838.5	838.5	838.5	838.5	838.5
2.5°	837.4	837.4	831.0	838.5	838.5
5°	834.2	832.1	820.4	821.4	820.4
7.5°	827.8	823.6	803.3	798.0	793.7
10°	818.2	809.7	779.9	767.1	759.6
12.5°	807.6	792.7	752.2	734.1	722.3
15°	791.6	770.3	722.3	694.6	682.9
17.5°	774.5	743.6	687.2	654.2	639.2
20°	753.2	717.0	652.0	611.5	596.6
22.5°	729.8	687.2	611.5	566.8	546.5
25°	706.4	653.1	573.2	519.9	499.7
27.5°	679.7	619.0	529.5	474.1	451.7
30°	649.9	584.9	489.0	431.5	402.7
32.5°	620.1	549.7	446.4	383.5	354.8
35°	589.2	510.3	404.8	333.5	309.0
37.5°	556.1	473.0	362.2	287.7	258.9
40°	524.2	435.7	319.6	240.8	214.1
42.5°	490.1	398.5	277.0	195.0	165.1
45°	454.9	358.0	236.5	150.2	119.3
47.5°	418.7	321.7	196.0	110.8	89.5
50°	382.5	283.4	157.7	82.0	74.6
52.5°	345.2	246.1	119.3	68.2	65.0
55°	307.9	210.9	86.3	58.6	55.4
57.5°	269.5	172.6	65.0	50.1	46.9
60°	228.0	138.5	51.1	41.6	38.4
62.5°	189.6	108.7	41.6	34.1	32.0
65°	152.4	77.8	33.0	27.7	25.6
67.5°	114.0	52.2	25.6	21.3	21.3
70°	77.8	34.1	19.2	17.0	17.0
72.5°	46.9	20.2	13.9	13.9	13.9
75°	19.2	12.8	10.7	10.7	10.7
77.5°	6.4	7.5	7.5	8.5	8.5
80°	4.3	4.3	5.3	6.4	6.4
82.5°	2.1	3.2	3.2	4.3	4.3
85°	1.1	1.1	2.1	2.1	2.1
87.5°	0.0	0.0	0.0	1.1	1.1
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	15.42	16.75	15.79	17.06	17.38	6.08	7.41	6.45	7.72	8.04
	3H	16.13	17.30	16.51	17.63	18.00	6.86	8.04	7.24	8.37	8.73
	4H	16.14	17.24	16.55	17.59	17.97	7.11	8.21	7.51	8.56	8.94
	6H	16.07	17.08	16.49	17.45	17.84	7.29	8.29	7.70	8.66	9.06
	8H	16.03	16.98	16.46	17.38	17.78	7.33	8.28	7.76	8.68	9.08
	12H	15.99	16.90	16.42	17.28	17.71	7.34	8.25	7.77	8.63	9.06
4H	2H	15.25	16.35	15.65	16.70	17.08	6.57	7.66	6.97	8.01	8.40
	3H	16.00	16.89	16.41	17.29	17.70	7.47	8.36	7.88	8.77	9.17
	4H	16.02	16.81	16.45	17.23	17.67	7.79	8.58	8.22	9.00	9.44
	6H	15.95	16.64	16.42	17.08	17.55	8.05	8.73	8.51	9.18	9.64
	8H	15.90	16.54	16.37	16.99	17.46	8.11	8.75	8.58	9.20	9.67
	12H	15.86	16.42	16.35	16.91	17.38	8.14	8.70	8.62	9.18	9.66
8H	4H	15.90	16.54	16.37	16.98	17.45	7.90	8.54	8.37	8.99	9.46
	6H	15.82	16.34	16.33	16.84	17.32	8.22	8.74	8.72	9.23	9.72
	8H	15.77	16.24	16.29	16.75	17.24	8.32	8.79	8.85	9.31	9.80
	12H	15.73	16.14	16.24	16.64	17.21	8.39	8.80	8.90	9.29	9.86
12H	4H	15.85	16.42	16.34	16.90	17.37	7.87	8.43	8.36	8.92	9.39
	6H	15.77	16.23	16.29	16.75	17.24	8.19	8.65	8.71	9.17	9.66
	8H	15.73	16.14	16.25	16.64	17.21	8.33	8.74	8.84	9.24	9.81