

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: P1061435

Luminaire Tested: S125RDRP-S1090D830-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061435
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1090D830-X4F0-XX-UDD-BVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

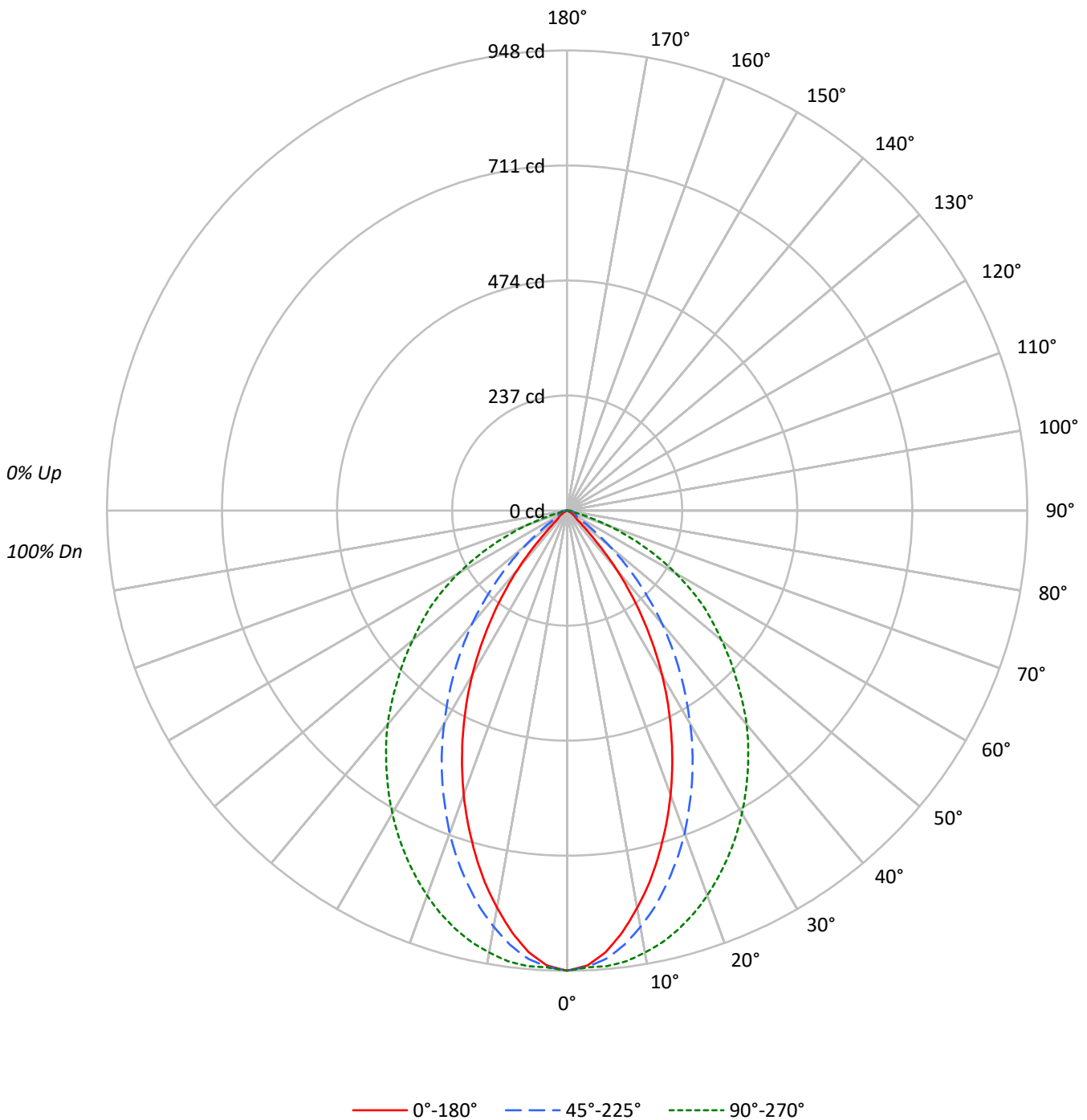
Lumens per Lamp: N/A
Luminaire Lumens: 1219.1 lumens
Efficiency: N/A
Efficacy: 34.8 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6526	6526	6526
5°	6309	6406	6511
10°	5811	6088	6464
15°	5217	5666	6357
20°	4567	5183	6183
25°	3858	4629	5968
30°	3109	4028	5726
35°	2286	3395	5455
40°	1427	2739	5173
45°	535	2000	4808
50°	250	1250	4439
55°	182	519	4105
60°	128	273	3553
65°	77	323	2815
70°	70	376	1786
75°	93	372	559
80°	139	464	416
85°	276	735	553

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4808 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.9	7.1
10°-20°	225.0	18.5
20°-30°	286.6	23.5
30°-40°	266.8	21.9
40°-50°	182.8	15.0
50°-60°	100.7	8.3
60°-70°	47.6	3.9
70°-80°	15.0	1.2
80°-90°	7.7	0.6
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°	598.6	49.1
0°-40°	865.4	71.0
0°-60°	1148.8	94.2
0°-90°	1219.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1219.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	913	924	927	934	942	85
15°	732	755	795	854	892	204
25°	508	539	609	707	786	232
35°	272	310	404	537	649	169
45°	55	92	205	364	494	52
55°	15	18	43	203	342	14
65°	5	6	20	75	173	5
75°	4	6	14	15	21	4
85°	4	8	9	8	7	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	947.8	947.8	947.8	947.8	947.8
2.5°	938.5	947.8	940.8	940.8	942.0
5°	912.8	924.5	926.8	933.8	942.0
7.5°	875.5	890.6	902.3	922.2	936.2
10°	831.1	849.8	870.8	903.5	924.5
12.5°	784.4	804.3	835.8	881.3	910.5
15°	731.9	755.2	794.9	854.5	891.8
17.5°	678.2	703.9	752.9	822.9	869.6
20°	623.3	650.2	707.4	785.6	843.9
22.5°	566.1	595.3	658.3	747.1	815.9
25°	507.8	539.3	609.3	707.4	785.6
27.5°	449.4	482.1	559.1	666.5	754.1
30°	391.0	424.9	506.6	624.5	720.2
32.5°	331.5	368.9	455.2	582.5	685.2
35°	272.0	310.5	403.9	537.0	649.0
37.5°	213.6	253.3	353.7	493.8	612.8
40°	158.8	198.4	304.7	450.6	575.5
42.5°	102.7	144.7	253.3	406.2	534.6
45°	54.9	92.2	205.4	364.2	493.8
47.5°	29.2	49.0	159.9	322.2	455.2
50°	23.3	26.8	116.7	280.1	414.4
52.5°	18.7	21.0	74.7	237.0	378.2
55°	15.2	17.5	43.2	203.1	342.0
57.5°	11.7	14.0	24.5	169.3	300.0
60°	9.3	10.5	19.8	135.4	258.0
62.5°	5.8	8.2	19.8	105.1	215.9
65°	4.7	5.8	19.8	74.7	172.8
67.5°	4.7	4.7	19.8	49.0	129.6
70°	3.5	3.5	18.7	31.5	88.7
72.5°	3.5	3.5	16.3	21.0	51.4
75°	3.5	5.8	14.0	15.2	21.0
77.5°	3.5	9.3	12.8	12.8	11.7
80°	3.5	9.3	11.7	10.5	10.5
82.5°	3.5	9.3	9.3	9.3	8.2
85°	3.5	8.2	9.3	8.2	7.0
87.5°	3.5	8.2	8.2	8.2	4.7
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	0.00	0.00	0.00	0.00	0.00	15.56	16.85	15.93	17.16	17.48
	3H	0.00	0.00	0.00	0.00	0.00	16.35	17.49	16.73	17.82	18.18
	4H	0.00	0.00	0.00	0.00	0.00	16.38	17.43	16.78	17.79	18.17
	6H	0.00	0.22	0.00	0.59	0.98	16.33	17.30	16.75	17.67	18.07
	8H	0.00	0.84	0.35	1.23	1.64	16.31	17.23	16.74	17.62	18.03
	12H	0.67	1.55	1.10	1.93	2.36	16.29	17.17	16.72	17.55	17.98
4H	2H	0.00	0.39	0.00	0.74	1.13	15.35	16.40	15.75	16.76	17.14
	3H	0.21	1.07	0.62	1.48	1.88	16.17	17.04	16.59	17.44	17.85
	4H	0.80	1.57	1.24	1.99	2.44	16.21	16.98	16.64	17.40	17.84
	6H	2.30	2.96	2.76	3.41	3.87	16.20	16.86	16.66	17.31	17.77
	8H	3.04	3.66	3.51	4.10	4.57	16.18	16.80	16.65	17.25	17.72
	12H	3.78	4.33	4.27	4.81	5.29	16.18	16.73	16.67	17.21	17.69
8H	4H	2.84	3.46	3.31	3.91	4.38	16.09	16.71	16.56	17.16	17.63
	6H	4.59	5.09	5.09	5.59	6.07	16.10	16.60	16.60	17.10	17.58
	8H	5.54	5.99	6.06	6.51	7.00	16.10	16.56	16.62	17.07	17.56
	12H	6.47	6.88	6.99	7.37	7.94	16.15	16.55	16.66	17.04	17.62
12H	4H	3.15	3.69	3.63	4.18	4.65	16.05	16.60	16.54	17.08	17.56
	6H	5.04	5.50	5.57	6.01	6.51	16.05	16.50	16.57	17.02	17.51
	8H	6.17	6.57	6.69	7.07	7.64	16.09	16.49	16.61	16.99	17.56