

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: P1056404

Luminaire Tested: S125R3DRP-S1270D935-X4F0-XX-UDD-F-S

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2024
Report Number: P1056404
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-12)
Test Lab: INNOVATION CENTER
Issue Date: 7/25/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125R3DRP-S1270D935-X4F0-XX-UDD-F-S
Description: DEFINE 5, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

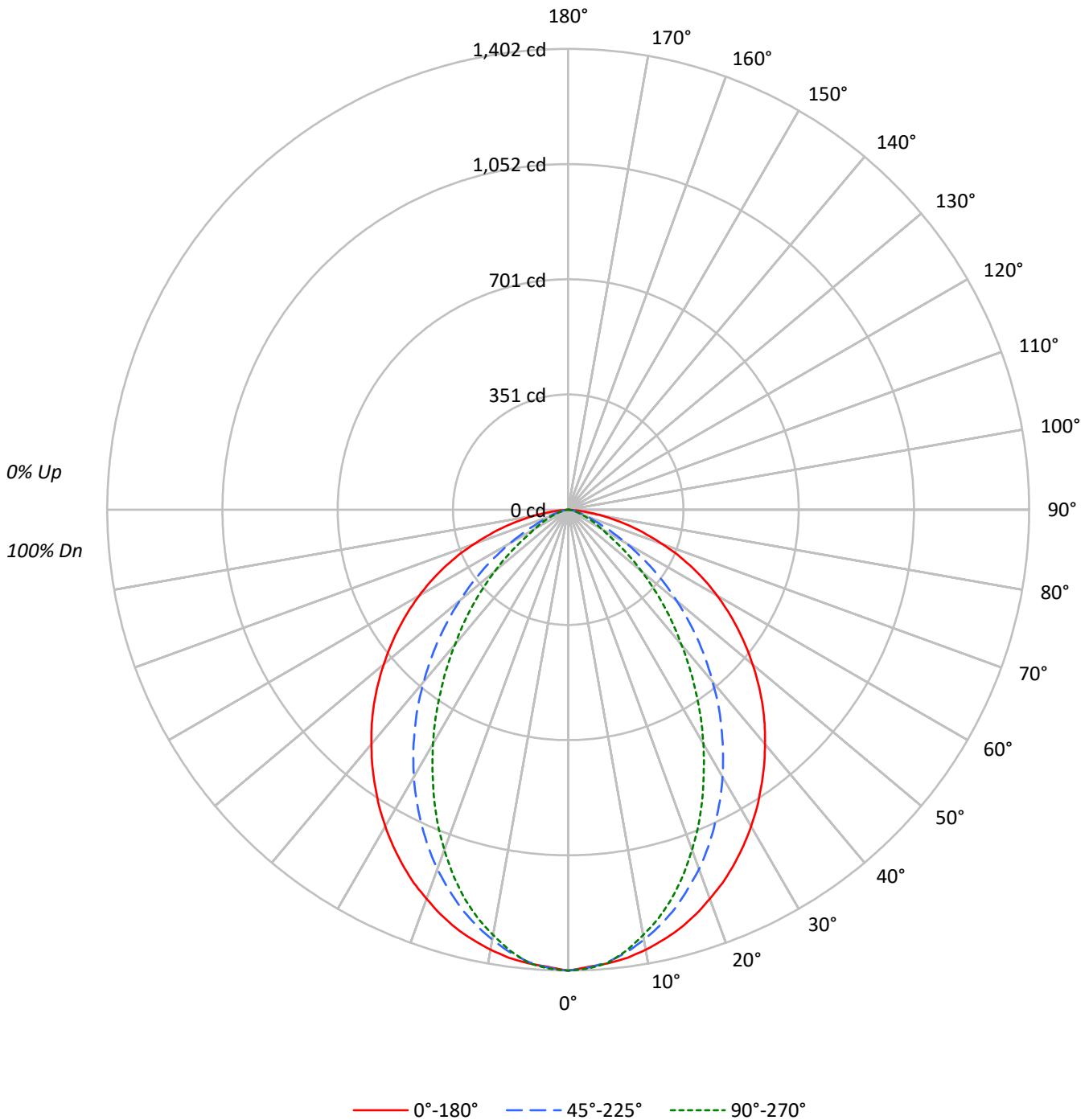
Lumens per Lamp: N/A
Luminaire Lumens: 2534.7 lumens
Efficiency: N/A
Efficacy: 60.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 41.9
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	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	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88												88																
2	102	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77												77																
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67												67																
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59												59																
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52												52																
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47												47																
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	54	48	44	42												42																
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38												38																
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36	35												35																
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32												32																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9914	9914	9914
5°	9832	9804	9823
10°	9759	9536	9433
15°	9646	9190	8943
20°	9476	8753	8284
25°	9298	8235	7536
30°	9084	7663	6710
35°	8842	7015	5838
40°	8592	6303	4937
45°	8347	5557	4089
50°	8055	4727	3214
55°	7746	3840	2337
60°	7399	2864	1671
65°	6950	1890	1303
70°	6281	1315	912
75°	5463	852	710
80°	4283	635	582
85°	2214	527	422

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8347 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	5.2
10°-20°	355.1	14.0
20°-30°	491.0	19.4
30°-40°	520.3	20.5
40°-50°	454.1	17.9
50°-60°	323.0	12.7
60°-70°	179.6	7.1
70°-80°	69.1	2.7
80°-90°	12.0	0.5
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°	976.8	38.5
0°-40°	1497.0	59.1
0°-60°	2274.1	89.7
0°-90°	2534.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2534.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1402	1402	1402	1402	1402	
5°	1386	1396	1382	1378	1384	131
15°	1318	1306	1256	1228	1222	371
25°	1192	1152	1056	991	966	549
35°	1024	954	813	714	676	641
45°	835	735	556	444	409	644
55°	628	504	312	216	190	562
65°	416	273	113	83	78	411
75°	200	78	31	26	26	212
85°	27	8	6	5	5	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1402.4	1402.4	1402.4	1402.4	1402.4
2.5°	1392.0	1406.3	1394.6	1395.9	1397.2
5°	1385.5	1395.9	1381.6	1377.7	1384.2
7.5°	1375.1	1382.9	1358.2	1349.2	1353.1
10°	1359.5	1362.1	1328.4	1315.4	1314.1
12.5°	1340.1	1336.2	1294.6	1273.8	1272.5
15°	1318.0	1306.3	1255.7	1228.4	1221.9
17.5°	1290.7	1272.5	1210.2	1175.2	1164.8
20°	1259.6	1234.9	1163.5	1118.0	1101.1
22.5°	1228.4	1194.6	1111.5	1054.4	1036.2
25°	1192.0	1151.8	1055.7	990.8	966.1
27.5°	1153.1	1105.0	998.6	923.2	893.4
30°	1112.8	1057.0	938.8	854.4	822.0
32.5°	1070.0	1006.4	876.5	784.3	750.5
35°	1024.5	954.4	812.9	714.2	676.5
37.5°	979.1	901.2	750.5	645.4	606.4
40°	931.0	846.6	683.0	575.2	535.0
42.5°	884.3	790.8	619.4	509.0	472.7
45°	834.9	735.0	555.8	444.1	409.0
47.5°	784.3	676.5	492.1	383.1	348.0
50°	732.4	619.4	429.8	323.3	292.2
52.5°	680.4	562.3	371.4	266.2	238.9
55°	628.5	503.8	311.6	215.6	189.6
57.5°	576.5	446.7	255.8	168.8	145.4
60°	523.3	388.3	202.6	124.7	118.2
62.5°	470.1	331.1	157.1	102.6	97.4
65°	415.5	272.7	113.0	83.1	77.9
67.5°	361.0	219.4	81.8	63.6	59.7
70°	303.9	167.5	63.6	48.0	44.1
72.5°	249.3	120.8	45.4	35.1	33.8
75°	200.0	77.9	31.2	26.0	26.0
77.5°	150.6	46.7	22.1	19.5	19.5
80°	105.2	27.3	15.6	14.3	14.3
82.5°	63.6	14.3	10.4	9.1	9.1
85°	27.3	7.8	6.5	5.2	5.2
87.5°	5.2	2.6	2.6	2.6	2.6
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	19.13	20.58	19.50	20.89	21.20	11.77	13.21	12.13	13.53	13.84
	3H	20.69	21.98	21.07	22.31	22.67	12.33	13.62	12.71	13.95	14.31
	4H	21.21	22.41	21.61	22.76	23.14	12.46	13.66	12.86	14.01	14.39
	6H	21.55	22.66	21.96	23.02	23.42	12.52	13.63	12.94	14.00	14.39
	8H	21.63	22.68	22.06	23.07	23.48	12.53	13.58	12.95	13.97	14.37
	12H	21.66	22.66	22.09	23.04	23.47	12.52	13.52	12.95	13.91	14.33
4H	2H	19.03	20.23	19.43	20.58	20.96	12.33	13.54	12.74	13.89	14.27
	3H	20.69	21.68	21.11	22.08	22.49	13.01	13.99	13.42	14.40	14.80
	4H	21.24	22.13	21.68	22.54	22.98	13.16	14.05	13.60	14.46	14.91
	6H	21.64	22.40	22.10	22.85	23.31	13.28	14.04	13.74	14.48	14.95
	8H	21.74	22.45	22.21	22.90	23.37	13.29	14.00	13.75	14.45	14.92
	12H	21.79	22.42	22.27	22.90	23.37	13.29	13.92	13.77	14.40	14.88
8H	4H	21.15	21.86	21.61	22.31	22.77	13.43	14.15	13.90	14.59	15.06
	6H	21.53	22.12	22.03	22.61	23.09	13.57	14.15	14.07	14.65	15.13
	8H	21.64	22.17	22.16	22.68	23.17	13.60	14.12	14.11	14.63	15.12
	12H	21.70	22.17	22.22	22.66	23.23	13.62	14.08	14.13	14.58	15.14
12H	4H	21.11	21.74	21.59	22.22	22.70	13.45	14.08	13.93	14.56	15.04
	6H	21.48	22.01	22.00	22.52	23.01	13.58	14.11	14.10	14.62	15.11
	8H	21.61	22.07	22.12	22.57	23.13	13.64	14.10	14.15	14.60	15.16