

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: P1056407

Luminaire Tested: S125R3DRP-S1270D940-X4F0-XX-UDD-F-S

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2024
Report Number: P1056407
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-S1270D940-X4F0-XX-UDD-F-S
Description: DEFINE 5, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

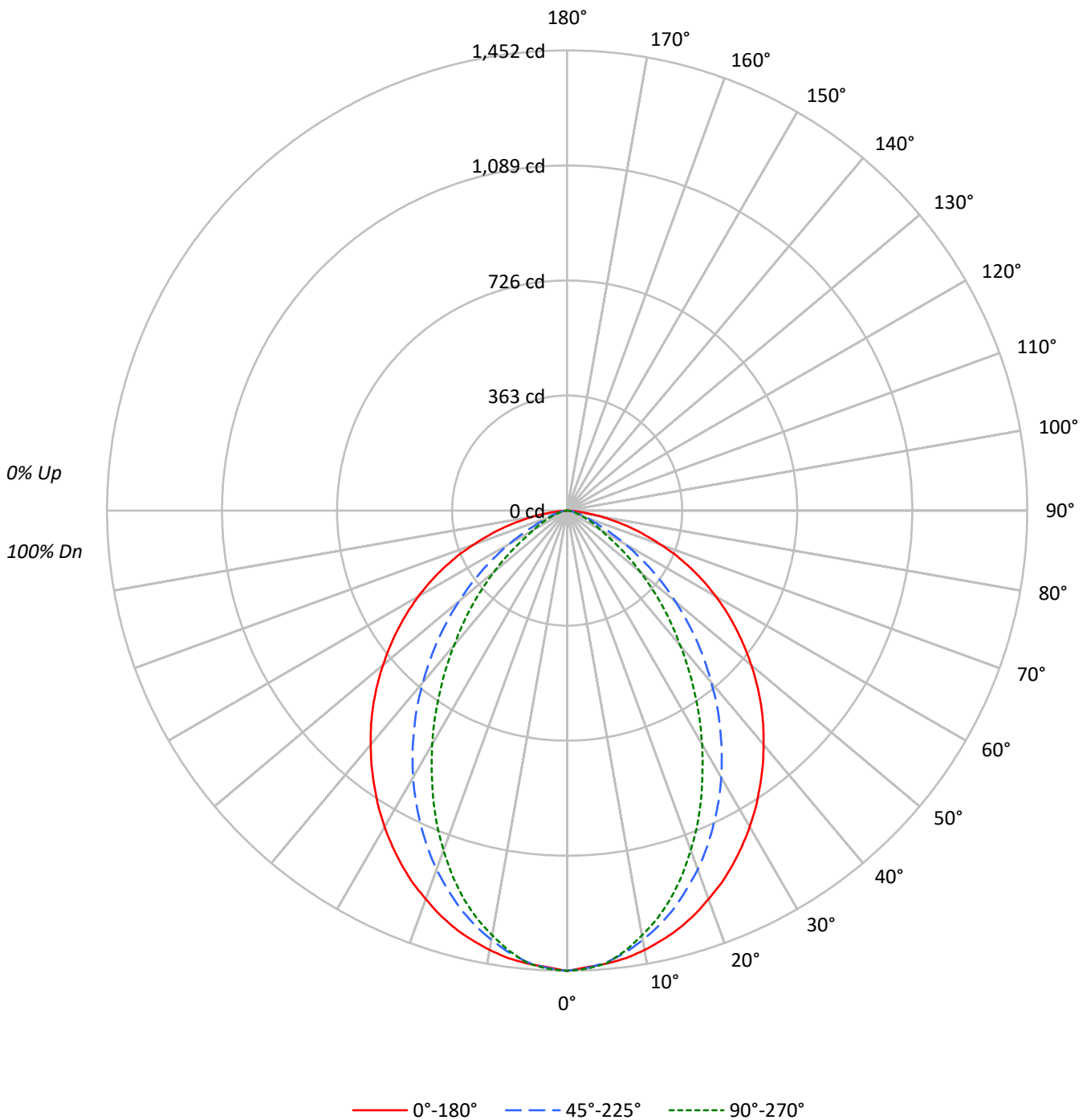
Lumens per Lamp: N/A
Luminaire Lumens: 2625.1 lumens
Efficiency: N/A
Efficacy: 62.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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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CATALOG NUMBER: S125R3DRP-S1270D940-X4F0-XX-UDD-F-S

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10268	10268	10268
5°	10183	10154	10173
10°	10107	9876	9770
15°	9990	9518	9262
20°	9814	9065	8579
25°	9630	8529	7805
30°	9408	7937	6949
35°	9157	7266	6047
40°	8898	6528	5113
45°	8645	5755	4235
50°	8342	4895	3328
55°	8022	3979	2419
60°	7663	2966	1731
65°	7198	1957	1350
70°	6505	1362	945
75°	5657	882	735
80°	4433	655	603
85°	2287	543	438

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8645 cd/sqm



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CATALOG NUMBER: S125R3DRP-S1270D940-X4F0-XX-UDD-F-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	5.2
10°-20°	367.8	14.0
20°-30°	508.6	19.4
30°-40°	538.8	20.5
40°-50°	470.3	17.9
50°-60°	334.5	12.7
60°-70°	186.0	7.1
70°-80°	71.5	2.7
80°-90°	12.4	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°	1011.6	38.5
0°-40°	1550.5	59.1
0°-60°	2355.2	89.7
0°-90°	2625.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2625.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1452	1452	1452	1452	1452	
5°	1435	1446	1431	1427	1434	136
15°	1365	1353	1300	1272	1266	384
25°	1235	1193	1093	1026	1001	568
35°	1061	988	842	740	701	664
45°	865	761	576	460	424	667
55°	651	522	323	223	196	582
65°	430	282	117	86	81	425
75°	207	81	32	27	27	220
85°	28	8	7	5	5	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1452.4	1452.4	1452.4	1452.4	1452.4
2.5°	1441.7	1456.5	1444.4	1445.7	1447.0
5°	1434.9	1445.7	1430.9	1426.9	1433.6
7.5°	1424.2	1432.2	1406.7	1397.3	1401.3
10°	1408.0	1410.7	1375.8	1362.3	1361.0
12.5°	1387.9	1383.8	1340.8	1319.3	1317.9
15°	1365.0	1352.9	1300.5	1272.2	1265.5
17.5°	1336.8	1317.9	1253.4	1217.1	1206.3
20°	1304.5	1278.9	1205.0	1157.9	1140.4
22.5°	1272.2	1237.2	1151.2	1092.0	1073.2
25°	1234.6	1192.9	1093.4	1026.1	1000.6
27.5°	1194.2	1144.5	1034.2	956.2	925.2
30°	1152.5	1094.7	972.3	884.9	851.3
32.5°	1108.1	1042.2	907.8	812.3	777.3
35°	1061.1	988.5	841.9	739.7	700.7
37.5°	1014.0	933.3	777.3	668.4	628.0
40°	964.2	876.8	707.4	595.8	554.1
42.5°	915.8	819.0	641.5	527.2	489.5
45°	864.7	761.2	575.6	459.9	423.6
47.5°	812.3	700.7	509.7	396.7	360.4
50°	758.5	641.5	445.1	334.9	302.6
52.5°	704.7	582.3	384.6	275.7	247.4
55°	650.9	521.8	322.8	223.2	196.3
57.5°	597.1	462.6	264.9	174.8	150.6
60°	542.0	402.1	209.8	129.1	122.4
62.5°	486.8	342.9	162.7	106.2	100.9
65°	430.3	282.4	117.0	86.1	80.7
67.5°	373.9	227.3	84.7	65.9	61.9
70°	314.7	173.5	65.9	49.8	45.7
72.5°	258.2	125.1	47.1	36.3	35.0
75°	207.1	80.7	32.3	26.9	26.9
77.5°	156.0	48.4	22.9	20.2	20.2
80°	108.9	28.2	16.1	14.8	14.8
82.5°	65.9	14.8	10.8	9.4	9.4
85°	28.2	8.1	6.7	5.4	5.4
87.5°	5.4	2.7	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1056407

CATALOG NUMBER: S125R3DRP-S1270D940-X4F0-XX-UDD-F-S

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	19.25	20.70	19.62	21.01	21.33	11.89	13.33	12.25	13.65	13.96
	3H	20.81	22.10	21.19	22.43	22.79	12.45	13.74	12.83	14.07	14.43
	4H	21.33	22.54	21.73	22.89	23.27	12.58	13.78	12.98	14.13	14.51
	6H	21.67	22.78	22.08	23.15	23.54	12.64	13.75	13.06	14.12	14.51
	8H	21.75	22.80	22.18	23.19	23.60	12.65	13.70	13.08	14.09	14.49
	12H	21.78	22.78	22.21	23.17	23.59	12.64	13.64	13.07	14.03	14.46
4H	2H	19.15	20.35	19.55	20.70	21.08	12.46	13.66	12.86	14.01	14.39
	3H	20.82	21.80	21.23	22.21	22.61	13.13	14.12	13.54	14.52	14.92
	4H	21.37	22.25	21.80	22.67	23.11	13.29	14.17	13.72	14.59	15.03
	6H	21.76	22.52	22.22	22.97	23.43	13.40	14.16	13.86	14.61	15.07
	8H	21.86	22.58	22.33	23.02	23.49	13.41	14.12	13.88	14.57	15.04
	12H	21.91	22.54	22.39	23.02	23.50	13.41	14.04	13.90	14.53	15.00
8H	4H	21.27	21.98	21.74	22.43	22.90	13.56	14.27	14.02	14.71	15.18
	6H	21.66	22.24	22.15	22.73	23.21	13.69	14.27	14.19	14.77	15.25
	8H	21.76	22.29	22.28	22.80	23.29	13.72	14.24	14.24	14.75	15.24
	12H	21.83	22.29	22.34	22.78	23.35	13.74	14.20	14.25	14.70	15.26
12H	4H	21.23	21.87	21.72	22.35	22.82	13.57	14.20	14.05	14.68	15.16
	6H	21.60	22.13	22.12	22.64	23.13	13.70	14.23	14.22	14.74	15.23
	8H	21.73	22.19	22.24	22.69	23.26	13.76	14.22	14.27	14.72	15.29