

Scaled data based on original data using
LM-79-2019 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: S125R3DR-S1270D940-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
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: S125R3DR-S1270D940-X4F0-XX-UDD-FLL-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

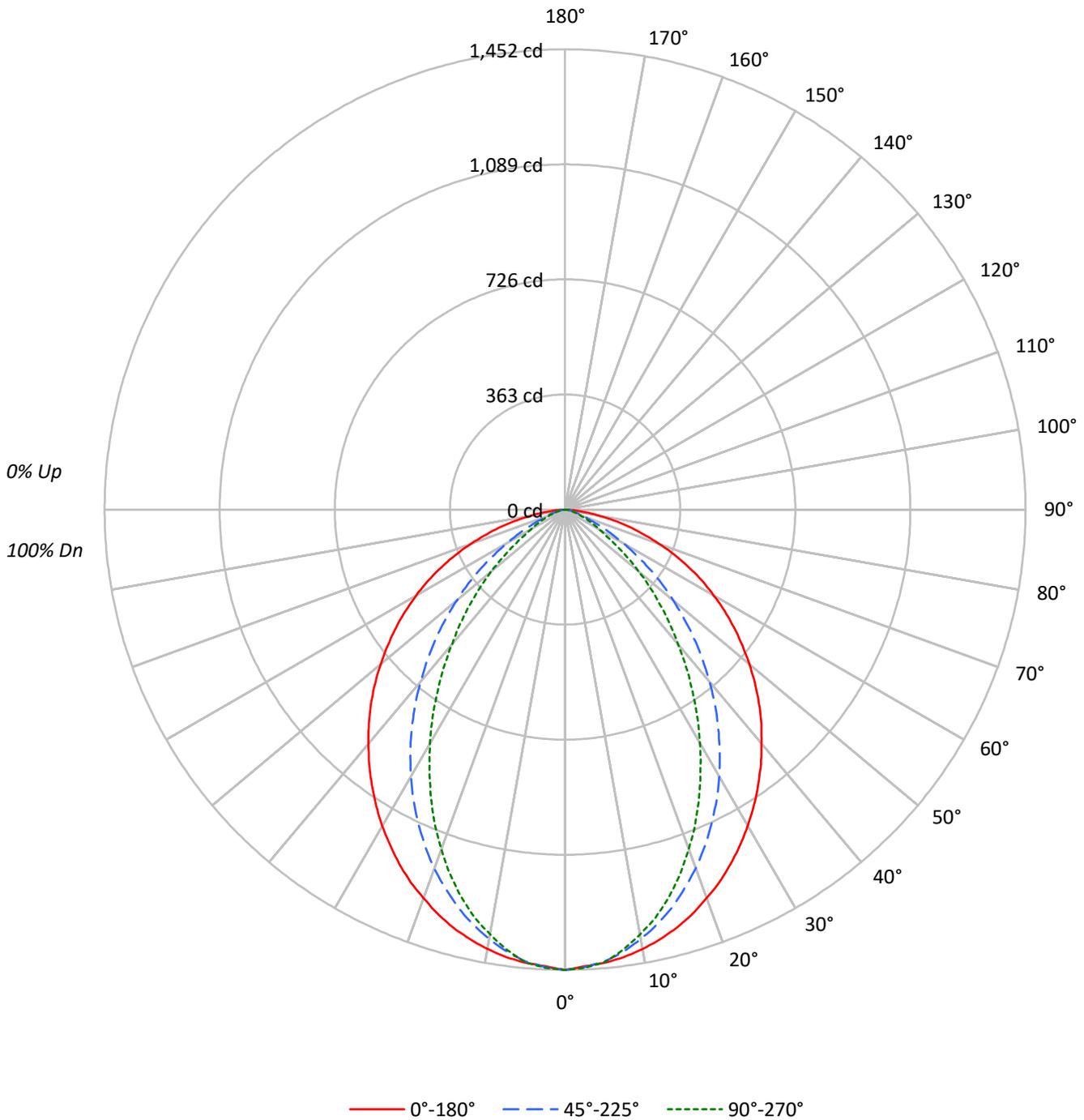
Lumens per Lamp: N/A
Luminaire Lumens: 2625.1 lumens
Efficiency: N/A
Efficacy: 62.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (Ain): 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	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°	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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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

(END OF REPORT)