

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: P1056403

Luminaire Tested: S125R3DR-S1270D935-X4F0-XX-UDD-FLL-B

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-11)
Test Lab: INNOVATION CENTER
Issue Date: 7/25/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125R3DR-S1270D935-X4F0-XX-UDD-FLL-B
Description: DEFINE 5, BLACK 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

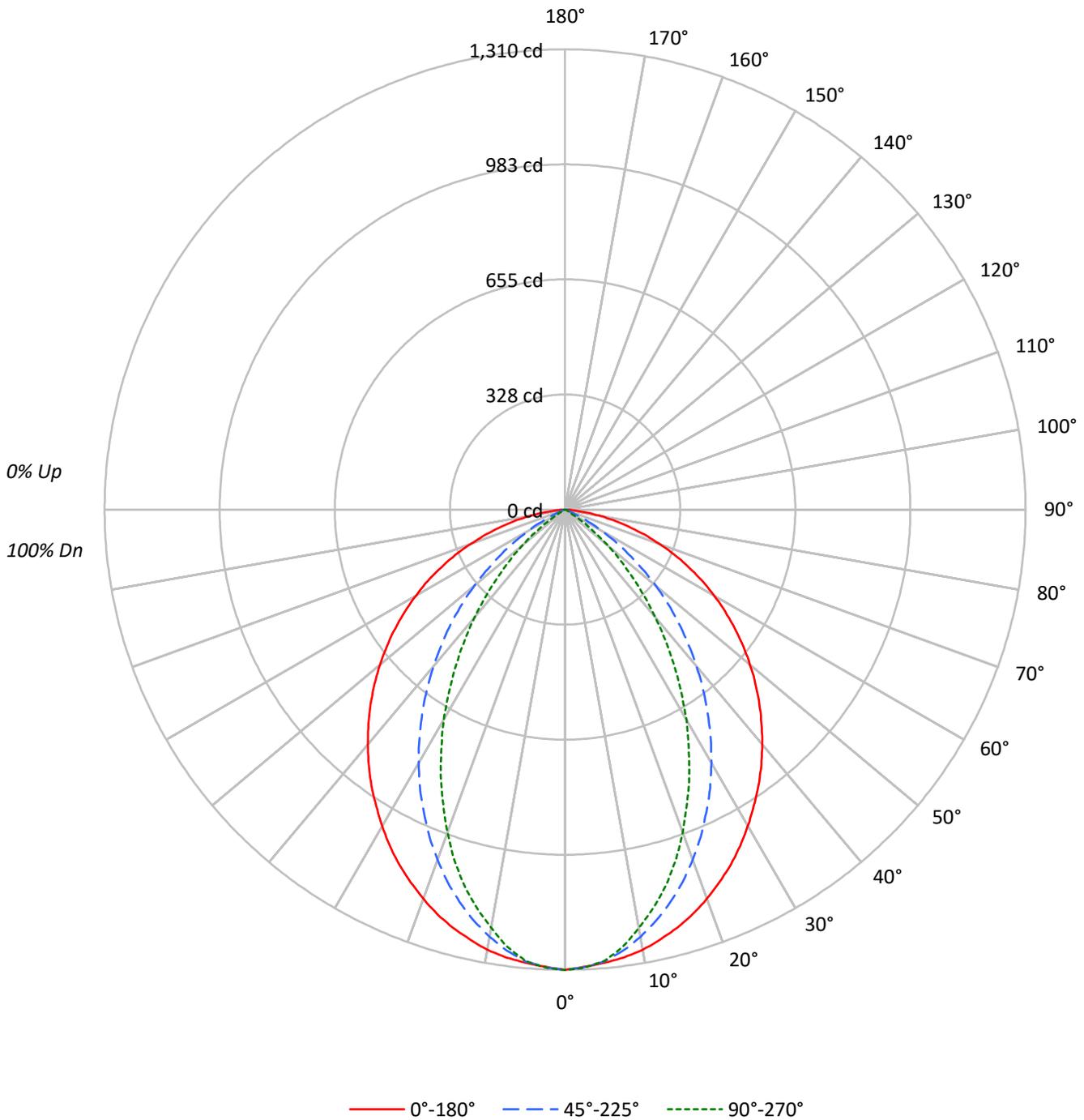
Lumens per Lamp: N/A
Luminaire Lumens: 2123.7 lumens
Efficiency: N/A
Efficacy: 50.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.89 / 1.07
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89	
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			78	
3	96	87	81	75	94	86	80	75	83	78	74	80	76	72	78	74	71	69			69	
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	61			61	
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55			55	
6	77	66	58	53	76	65	58	52	63	57	52	62	56	52	60	55	51	49			49	
7	72	61	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45			45	
8	68	56	48	43	66	55	48	43	54	47	43	53	47	43	52	46	42	41			41	
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37			37	
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34			34	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9262	9262	9262
5°	9187	9159	9150
10°	9135	8865	8678
15°	9019	8468	8106
20°	8870	7981	7356
25°	8700	7414	6522
30°	8490	6795	5639
35°	8281	6107	4662
40°	8053	5368	3690
45°	7815	4583	2674
50°	7554	3699	1728
55°	7266	2704	768
60°	6921	1671	221
65°	6495	609	130
70°	5878	215	54
75°	5108	71	36
80°	3912	53	0
85°	1793	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7815 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.7	5.7
10°-20°	326.8	15.4
20°-30°	442.1	20.8
30°-40°	454.1	21.4
40°-50°	376.2	17.7
50°-60°	241.5	11.4
60°-70°	116.7	5.5
70°-80°	39.5	1.9
80°-90°	5.1	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°	890.5	41.9
0°-40°	1344.7	63.3
0°-60°	1962.4	92.4
0°-90°	2123.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2123.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1310	1310	1310	1310	1310	
5°	1295	1305	1291	1283	1289	123
15°	1232	1217	1157	1117	1108	347
25°	1115	1061	950	865	836	513
35°	960	867	708	584	540	600
45°	782	653	458	317	268	603
55°	590	432	219	96	62	527
65°	388	214	36	10	8	384
75°	187	40	3	1	1	198
85°	22	0	0	0	0	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1310.2	1310.2	1310.2	1310.2	1310.2
2.5°	1302.4	1312.8	1303.7	1302.4	1305.0
5°	1294.6	1305.0	1290.7	1282.9	1289.4
7.5°	1285.5	1290.7	1266.1	1253.1	1255.7
10°	1272.5	1271.3	1234.9	1212.8	1208.9
12.5°	1253.1	1246.6	1198.5	1167.4	1160.9
15°	1232.3	1216.7	1157.0	1116.7	1107.6
17.5°	1207.6	1183.0	1111.5	1059.6	1046.6
20°	1179.1	1145.3	1060.9	997.3	977.8
22.5°	1147.9	1105.0	1007.7	932.3	906.4
25°	1115.4	1060.9	950.5	864.8	836.2
27.5°	1079.1	1015.4	893.4	796.0	760.9
30°	1040.1	967.4	832.4	725.9	690.8
32.5°	999.9	919.4	771.3	655.8	612.9
35°	959.6	867.4	707.7	584.3	540.2
37.5°	916.8	815.5	645.4	516.8	468.8
40°	872.6	762.2	581.7	446.7	399.9
42.5°	827.2	707.7	518.1	380.5	332.4
45°	781.7	653.2	458.4	316.8	267.5
47.5°	735.0	597.3	396.0	254.5	211.7
50°	686.9	542.8	336.3	198.7	157.1
52.5°	638.9	486.9	275.3	144.1	106.5
55°	589.5	432.4	219.4	96.1	62.3
57.5°	540.2	376.6	167.5	53.2	23.4
60°	489.5	323.3	118.2	18.2	15.6
62.5°	440.2	266.2	74.0	14.3	11.7
65°	388.3	214.3	36.4	10.4	7.8
67.5°	337.6	164.9	15.6	6.5	3.9
70°	284.4	119.5	10.4	3.9	2.6
72.5°	235.0	76.6	6.5	2.6	1.3
75°	187.0	40.3	2.6	1.3	1.3
77.5°	140.2	16.9	1.3	1.3	1.3
80°	96.1	7.8	1.3	1.3	0.0
82.5°	57.1	2.6	1.3	1.3	0.0
85°	22.1	0.0	0.0	0.0	0.0
87.5°	1.3	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)