

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: P1056373

Luminaire Tested: S125R3DR-S1090D930-X4F0-XX-UDD-FLL-B

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056373
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-S1090D930-X4F0-XX-UDD-FLL-B
Description: DEFINE 5, BLACK 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

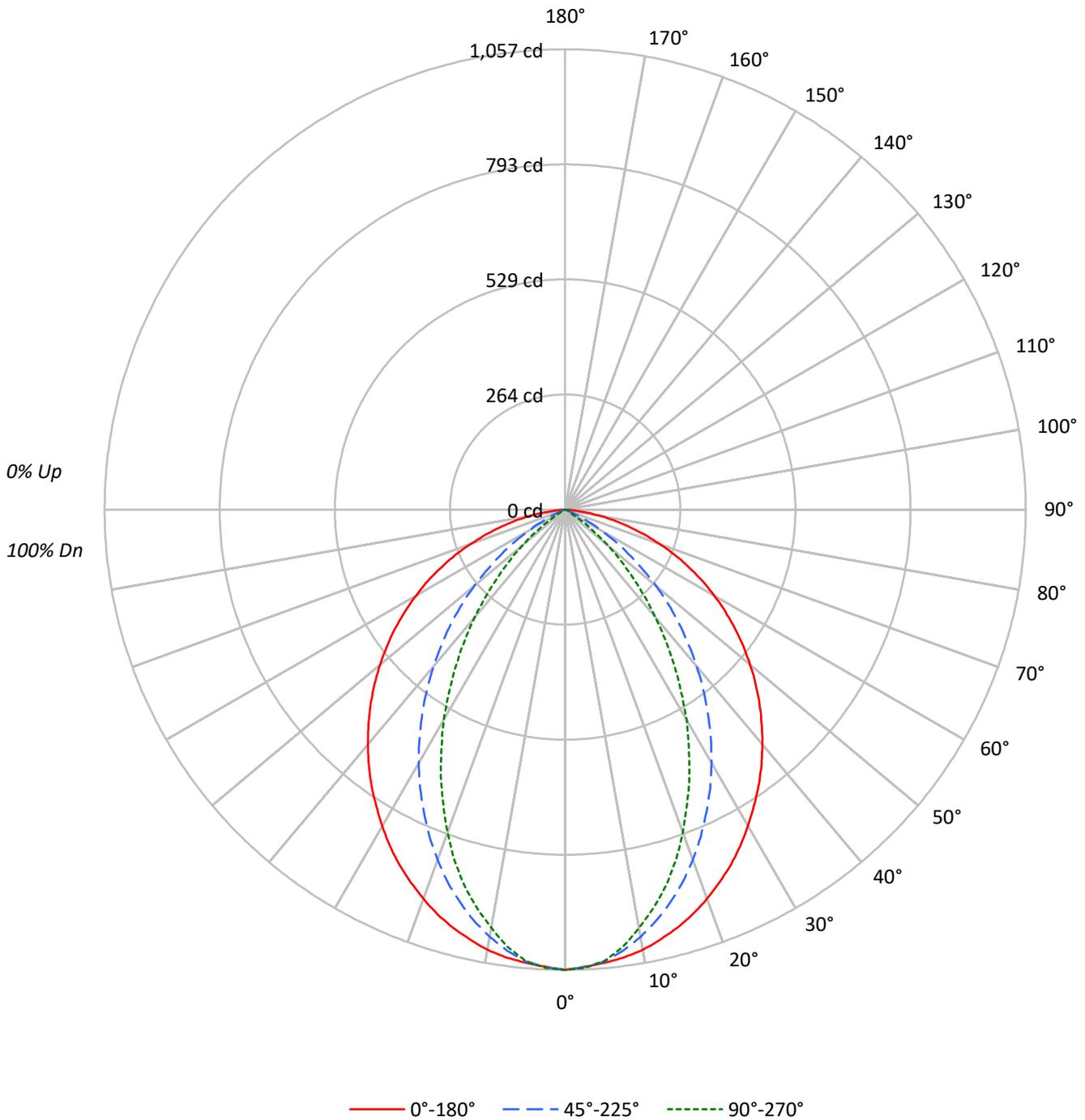
Lumens per Lamp: N/A
Luminaire Lumens: 1713.4 lumens
Efficiency: N/A
Efficacy: 49.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.89 / 1.07
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 34.7
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°	7473	7473	7473
5°	7413	7390	7383
10°	7371	7153	7002
15°	7277	6832	6541
20°	7157	6440	5935
25°	7020	5982	5263
30°	6850	5482	4550
35°	6682	4928	3761
40°	6498	4332	2978
45°	6305	3697	2157
50°	6095	2985	1395
55°	5863	2183	620
60°	5585	1347	178
65°	5241	490	105
70°	4742	174	43
75°	4122	57	27
80°	3155	41	0
85°	1444	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6305 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.2	5.7
10°-20°	263.6	15.4
20°-30°	356.7	20.8
30°-40°	366.4	21.4
40°-50°	303.6	17.7
50°-60°	194.9	11.4
60°-70°	94.1	5.5
70°-80°	31.8	1.9
80°-90°	4.1	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°	718.5	41.9
0°-40°	1084.9	63.3
0°-60°	1583.4	92.4
0°-90°	1713.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1713.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1057	1057	1057	1057	1057	
5°	1045	1053	1041	1035	1040	99
15°	994	982	934	901	894	280
25°	900	856	767	698	675	414
35°	774	700	571	472	436	484
45°	631	527	370	256	216	486
55°	476	349	177	78	50	425
65°	313	173	29	8	6	310
75°	151	32	2	1	1	160
85°	18	0	0	0	0	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1057.1	1057.1	1057.1	1057.1	1057.1
2.5°	1050.9	1059.2	1051.9	1050.9	1053.0
5°	1044.6	1053.0	1041.4	1035.1	1040.4
7.5°	1037.2	1041.4	1021.5	1011.0	1013.1
10°	1026.8	1025.7	996.4	978.6	975.4
12.5°	1011.0	1005.8	967.0	941.9	936.7
15°	994.3	981.7	933.5	901.0	893.7
17.5°	974.4	954.5	896.8	854.9	844.5
20°	951.3	924.1	856.0	804.6	788.9
22.5°	926.2	891.6	813.0	752.3	731.3
25°	900.0	856.0	766.9	697.8	674.7
27.5°	870.6	819.3	720.8	642.2	614.0
30°	839.2	780.5	671.6	585.7	557.4
32.5°	806.7	741.8	622.3	529.1	494.5
35°	774.3	699.9	571.0	471.5	435.8
37.5°	739.7	658.0	520.7	417.0	378.2
40°	704.1	615.0	469.4	360.4	322.7
42.5°	667.4	571.0	418.0	307.0	268.2
45°	630.7	527.0	369.8	255.6	215.8
47.5°	593.0	481.9	319.6	205.4	170.8
50°	554.2	437.9	271.4	160.3	126.8
52.5°	515.5	392.9	222.1	116.3	85.9
55°	475.7	348.9	177.1	77.5	50.3
57.5°	435.8	303.8	135.2	43.0	18.9
60°	395.0	260.9	95.3	14.7	12.6
62.5°	355.2	214.8	59.7	11.5	9.4
65°	313.3	172.9	29.3	8.4	6.3
67.5°	272.4	133.1	12.6	5.2	3.1
70°	229.4	96.4	8.4	3.1	2.1
72.5°	189.6	61.8	5.2	2.1	1.0
75°	150.9	32.5	2.1	1.0	1.0
77.5°	113.2	13.6	1.0	1.0	1.0
80°	77.5	6.3	1.0	1.0	0.0
82.5°	46.1	2.1	1.0	1.0	0.0
85°	17.8	0.0	0.0	0.0	0.0
87.5°	1.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)