

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: P1056377

Luminaire Tested: S125R3DR-S1090D935-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056377
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-S1090D935-X4F0-XX-UDD-FLL-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

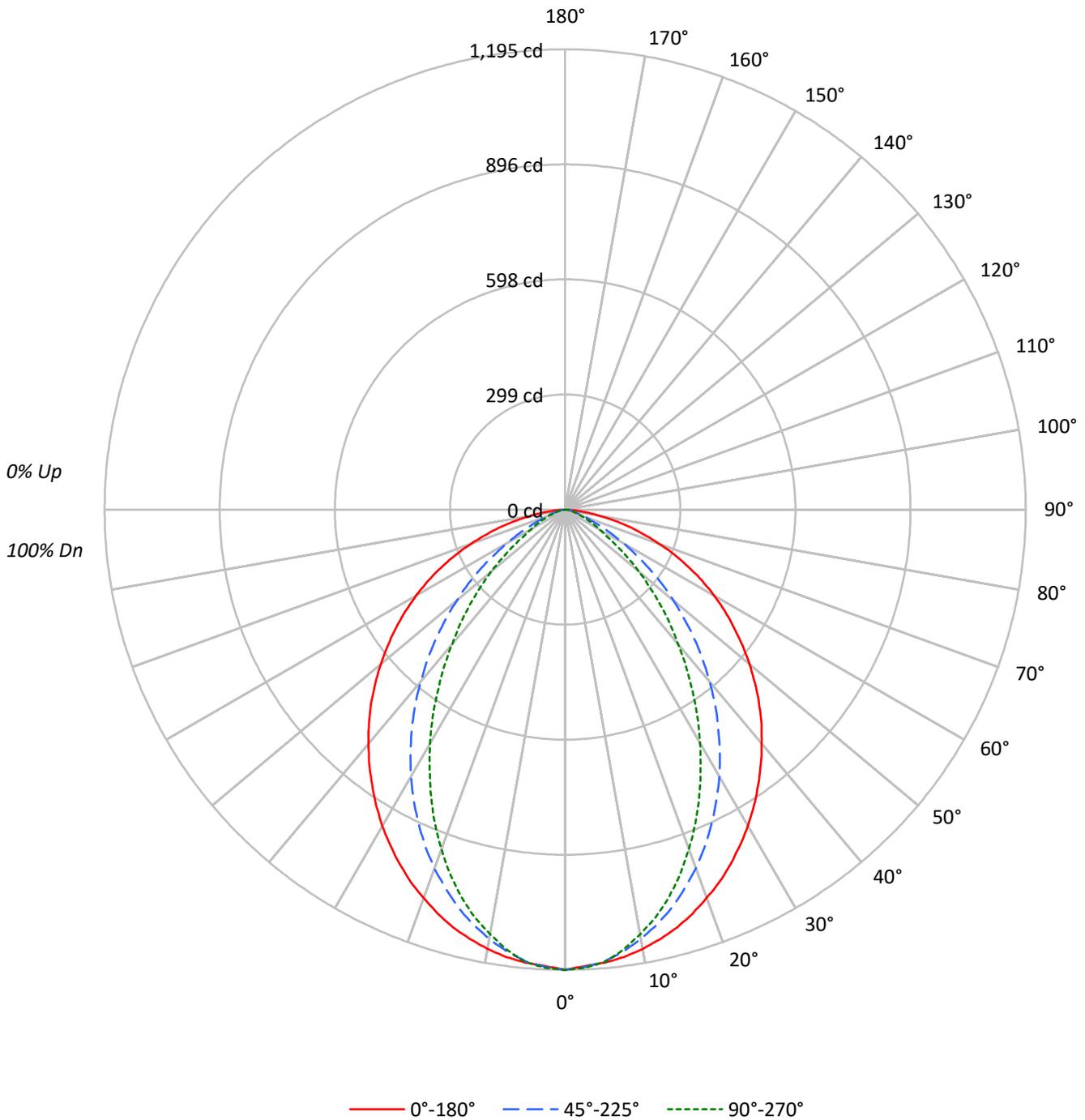
Lumens per Lamp: N/A
Luminaire Lumens: 2159.7 lumens
Efficiency: N/A
Efficacy: 62.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	8448	8448	8448
5°	8378	8354	8370
10°	8315	8125	8038
15°	8219	7830	7620
20°	8074	7458	7059
25°	7923	7016	6421
30°	7740	6530	5717
35°	7534	5977	4975
40°	7321	5371	4207
45°	7112	4735	3484
50°	6863	4027	2737
55°	6600	3272	1990
60°	6304	2440	1424
65°	5923	1611	1111
70°	5351	1120	777
75°	4654	727	604
80°	3648	541	497
85°	1882	446	357

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7112 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.3	5.2
10°-20°	302.6	14.0
20°-30°	418.4	19.4
30°-40°	443.3	20.5
40°-50°	386.9	17.9
50°-60°	275.2	12.7
60°-70°	153.0	7.1
70°-80°	58.8	2.7
80°-90°	10.2	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°	832.3	38.5
0°-40°	1275.6	59.1
0°-60°	1937.7	89.7
0°-90°	2159.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2159.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1195	1195	1195	1195	1195	
5°	1181	1189	1177	1174	1180	112
15°	1123	1113	1070	1047	1041	316
25°	1016	981	900	844	823	468
35°	873	813	693	608	576	546
45°	711	626	474	378	348	548
55°	536	429	266	184	162	479
65°	354	232	96	71	66	350
75°	170	66	27	22	22	181
85°	23	7	6	4	4	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1195.0	1195.0	1195.0	1195.0	1195.0
2.5°	1186.1	1198.3	1188.3	1189.4	1190.5
5°	1180.6	1189.4	1177.2	1173.9	1179.5
7.5°	1171.7	1178.4	1157.3	1149.6	1152.9
10°	1158.4	1160.7	1131.9	1120.8	1119.7
12.5°	1141.8	1138.5	1103.1	1085.4	1084.3
15°	1123.0	1113.1	1069.9	1046.7	1041.2
17.5°	1099.8	1084.3	1031.2	1001.3	992.5
20°	1073.2	1052.2	991.4	952.6	938.3
22.5°	1046.7	1017.9	947.1	898.4	882.9
25°	1015.7	981.4	899.5	844.2	823.2
27.5°	982.5	941.6	850.9	786.7	761.2
30°	948.2	900.6	800.0	728.0	700.4
32.5°	911.7	857.5	746.8	668.3	639.5
35°	873.0	813.2	692.6	608.5	576.5
37.5°	834.3	767.9	639.5	549.9	516.7
40°	793.3	721.4	582.0	490.2	455.9
42.5°	753.5	673.8	527.8	433.7	402.7
45°	711.4	626.2	473.6	378.4	348.5
47.5°	668.3	576.5	419.3	326.4	296.5
50°	624.0	527.8	366.2	275.5	248.9
52.5°	579.8	479.1	316.4	226.8	203.6
55°	535.5	429.3	265.5	183.7	161.5
57.5°	491.3	380.6	218.0	143.8	123.9
60°	445.9	330.8	172.6	106.2	100.7
62.5°	400.5	282.1	133.9	87.4	83.0
65°	354.1	232.4	96.3	70.8	66.4
67.5°	307.6	187.0	69.7	54.2	50.9
70°	258.9	142.7	54.2	40.9	37.6
72.5°	212.4	102.9	38.7	29.9	28.8
75°	170.4	66.4	26.6	22.1	22.1
77.5°	128.3	39.8	18.8	16.6	16.6
80°	89.6	23.2	13.3	12.2	12.2
82.5°	54.2	12.2	8.9	7.7	7.7
85°	23.2	6.6	5.5	4.4	4.4
87.5°	4.4	2.2	2.2	2.2	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)