

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: P1056378

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

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-10)
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-W
Description: DEFINE 5, WHITE 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

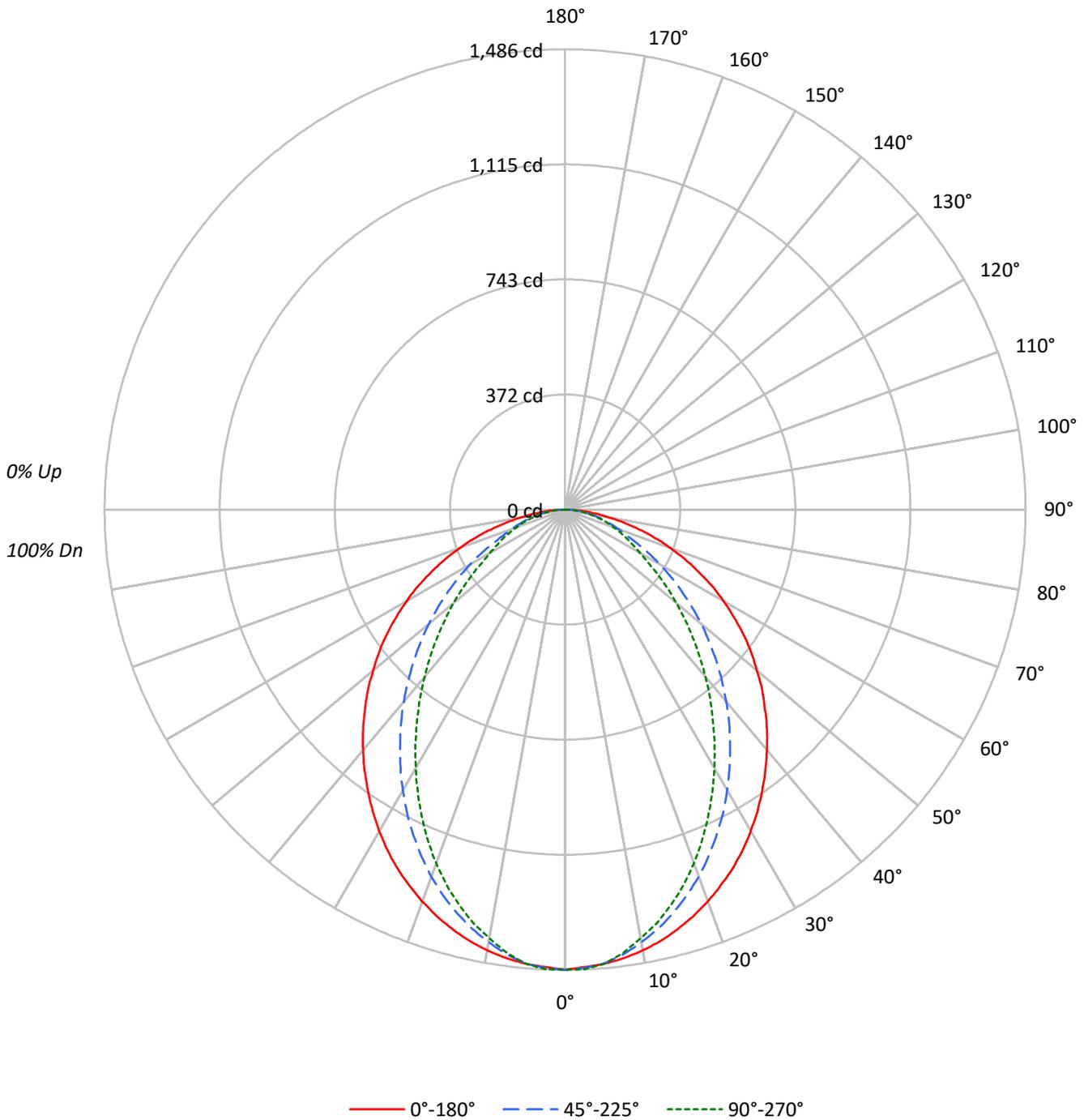
Lumens per Lamp: N/A
Luminaire Lumens: 3149.4 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.01 / 1.17
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38
8	63	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34
9	59	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	30	42	35	30	41	35	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10504	10504	10504
5°	10443	10435	10443
10°	10373	10183	10087
15°	10268	9871	9669
20°	10130	9489	9148
25°	9976	9036	8527
30°	9782	8544	7867
35°	9568	8011	7180
40°	9353	7464	6504
45°	9126	6891	5830
50°	8883	6303	5159
55°	8660	5660	4486
60°	8353	4974	3942
65°	7941	4220	3665
70°	7455	3774	3431
75°	6738	3474	3234
80°	5854	3155	3017
85°	4575	2782	2782

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9126 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.0	4.4
10°-20°	381.7	12.1
20°-30°	539.2	17.1
30°-40°	593.6	18.8
40°-50°	553.7	17.6
50°-60°	442.1	14.0
60°-70°	297.5	9.4
70°-80°	158.4	5.0
80°-90°	44.0	1.4
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°	1060.0	33.7
0°-40°	1653.7	52.5
0°-60°	2649.5	84.1
0°-90°	3149.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3149.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1486	1486	1486	1486	1486	
5°	1472	1484	1470	1466	1472	140
15°	1403	1395	1349	1326	1321	396
25°	1279	1240	1158	1108	1093	589
35°	1109	1043	928	855	832	694
45°	913	826	689	605	583	705
55°	703	596	459	386	364	627
65°	475	371	252	224	219	471
75°	247	164	127	120	118	263
85°	56	39	34	35	34	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1485.9	1485.9	1485.9	1485.9	1485.9
2.5°	1478.2	1490.4	1480.4	1482.6	1484.8
5°	1471.6	1483.7	1470.5	1466.0	1471.6
7.5°	1460.5	1470.5	1448.3	1438.4	1442.8
10°	1445.0	1451.6	1418.5	1405.2	1405.2
12.5°	1426.2	1426.2	1386.4	1367.6	1367.6
15°	1403.0	1395.2	1348.7	1325.5	1321.1
17.5°	1376.4	1362.0	1306.7	1276.8	1271.3
20°	1346.5	1323.3	1261.3	1222.6	1216.0
22.5°	1313.3	1283.5	1211.5	1164.0	1156.2
25°	1279.0	1240.3	1158.4	1107.5	1093.2
27.5°	1240.3	1193.8	1104.2	1046.7	1029.0
30°	1198.3	1145.2	1046.7	982.5	963.7
32.5°	1155.1	1095.4	988.0	919.5	898.4
35°	1108.7	1043.4	928.3	855.3	832.0
37.5°	1062.2	991.4	869.7	793.3	769.0
40°	1013.5	936.0	808.8	730.2	704.8
42.5°	964.8	881.8	749.1	669.4	642.8
45°	912.8	826.5	689.3	605.2	583.1
47.5°	863.0	770.1	630.7	548.8	524.5
50°	807.7	711.4	573.1	491.3	469.1
52.5°	756.8	653.9	515.6	439.3	416.0
55°	702.6	596.4	459.2	386.1	364.0
57.5°	646.2	538.8	405.0	336.4	315.3
60°	590.8	481.3	351.8	288.8	278.8
62.5°	534.4	427.1	302.1	253.4	246.7
65°	474.7	370.7	252.3	223.5	219.1
67.5°	418.2	316.4	212.4	195.8	191.4
70°	360.7	262.2	182.6	168.2	166.0
72.5°	304.3	210.2	153.8	143.8	141.6
75°	246.7	163.8	127.2	119.5	118.4
77.5°	193.6	122.8	100.7	97.4	95.2
80°	143.8	91.8	77.5	75.2	74.1
82.5°	98.5	63.1	55.3	55.3	53.1
85°	56.4	38.7	34.3	35.4	34.3
87.5°	21.0	16.6	15.5	16.6	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)