

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: P1056374

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

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056374
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-S1090D930-X4F0-XX-UDD-FLL-S
Description: DEFINE 5, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

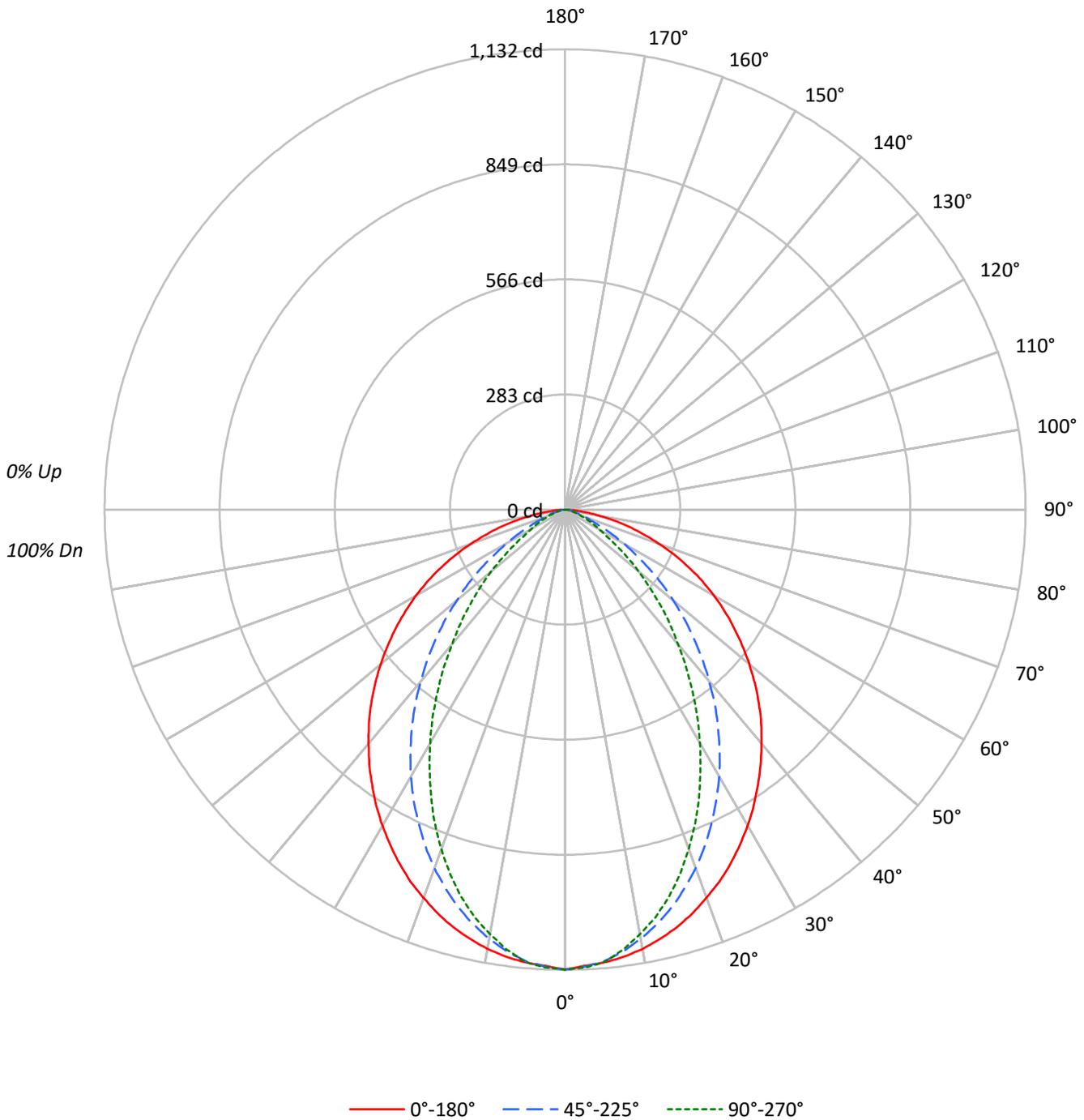
Lumens per Lamp: N/A
Luminaire Lumens: 2045.2 lumens
Efficiency: N/A
Efficacy: 58.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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				
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88				
2	102	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67				
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59				
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52				
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47				
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	54	48	44	42				
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38				
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36	35				
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7999	7999	7999
5°	7933	7911	7926
10°	7875	7694	7611
15°	7783	7415	7216
20°	7646	7062	6684
25°	7502	6644	6080
30°	7330	6183	5414
35°	7134	5660	4711
40°	6932	5086	3984
45°	6735	4483	3299
50°	6499	3814	2592
55°	6250	3100	1886
60°	5969	2310	1347
65°	5609	1526	1052
70°	5068	1060	736
75°	4406	686	574
80°	3456	513	468
85°	1784	422	341

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6735 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.4	5.2
10°-20°	286.5	14.0
20°-30°	396.2	19.4
30°-40°	419.8	20.5
40°-50°	366.4	17.9
50°-60°	260.6	12.7
60°-70°	144.9	7.1
70°-80°	55.7	2.7
80°-90°	9.6	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°	788.1	38.5
0°-40°	1207.9	59.1
0°-60°	1834.9	89.7
0°-90°	2045.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2045.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1132	1132	1132	1132	1132	
5°	1118	1126	1115	1112	1117	106
15°	1063	1054	1013	991	986	300
25°	962	929	852	799	780	443
35°	827	770	656	576	546	517
45°	674	593	448	358	330	519
55°	507	406	252	174	153	453
65°	335	220	91	67	63	331
75°	161	63	25	21	21	171
85°	22	6	5	4	4	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1131.5	1131.5	1131.5	1131.5	1131.5
2.5°	1123.1	1134.7	1125.2	1126.3	1127.3
5°	1117.9	1126.3	1114.8	1111.6	1116.9
7.5°	1109.5	1115.8	1095.9	1088.6	1091.7
10°	1097.0	1099.0	1071.8	1061.3	1060.3
12.5°	1081.2	1078.1	1044.6	1027.8	1026.8
15°	1063.4	1054.0	1013.1	991.1	985.9
17.5°	1041.4	1026.8	976.5	948.2	939.8
20°	1016.3	996.4	938.7	902.1	888.5
22.5°	991.1	963.9	896.8	850.7	836.1
25°	961.8	929.3	851.8	799.4	779.5
27.5°	930.4	891.6	805.7	744.9	720.8
30°	897.9	852.8	757.5	689.4	663.2
32.5°	863.3	812.0	707.2	632.8	605.6
35°	826.6	770.1	655.9	576.2	545.9
37.5°	790.0	727.1	605.6	520.7	489.3
40°	751.2	683.1	551.1	464.1	431.7
42.5°	713.5	638.1	499.8	410.7	381.4
45°	673.7	593.0	448.4	358.3	330.0
47.5°	632.8	545.9	397.1	309.1	280.8
50°	590.9	499.8	346.8	260.9	235.7
52.5°	549.0	453.7	299.6	214.8	192.8
55°	507.1	406.5	251.5	173.9	153.0
57.5°	465.2	360.4	206.4	136.2	117.3
60°	422.2	313.3	163.4	100.6	95.3
62.5°	379.3	267.2	126.8	82.8	78.6
65°	335.3	220.0	91.2	67.1	62.9
67.5°	291.3	177.1	66.0	51.3	48.2
70°	245.2	135.2	51.3	38.8	35.6
72.5°	201.2	97.4	36.7	28.3	27.2
75°	161.3	62.9	25.1	21.0	21.0
77.5°	121.5	37.7	17.8	15.7	15.7
80°	84.9	22.0	12.6	11.5	11.5
82.5°	51.3	11.5	8.4	7.3	7.3
85°	22.0	6.3	5.2	4.2	4.2
87.5°	4.2	2.1	2.1	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)