

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: P1061488

Luminaire Tested: S125RDR-S1090D935-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061488
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-48)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1090D935-X4F0-XX-UDD-BVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

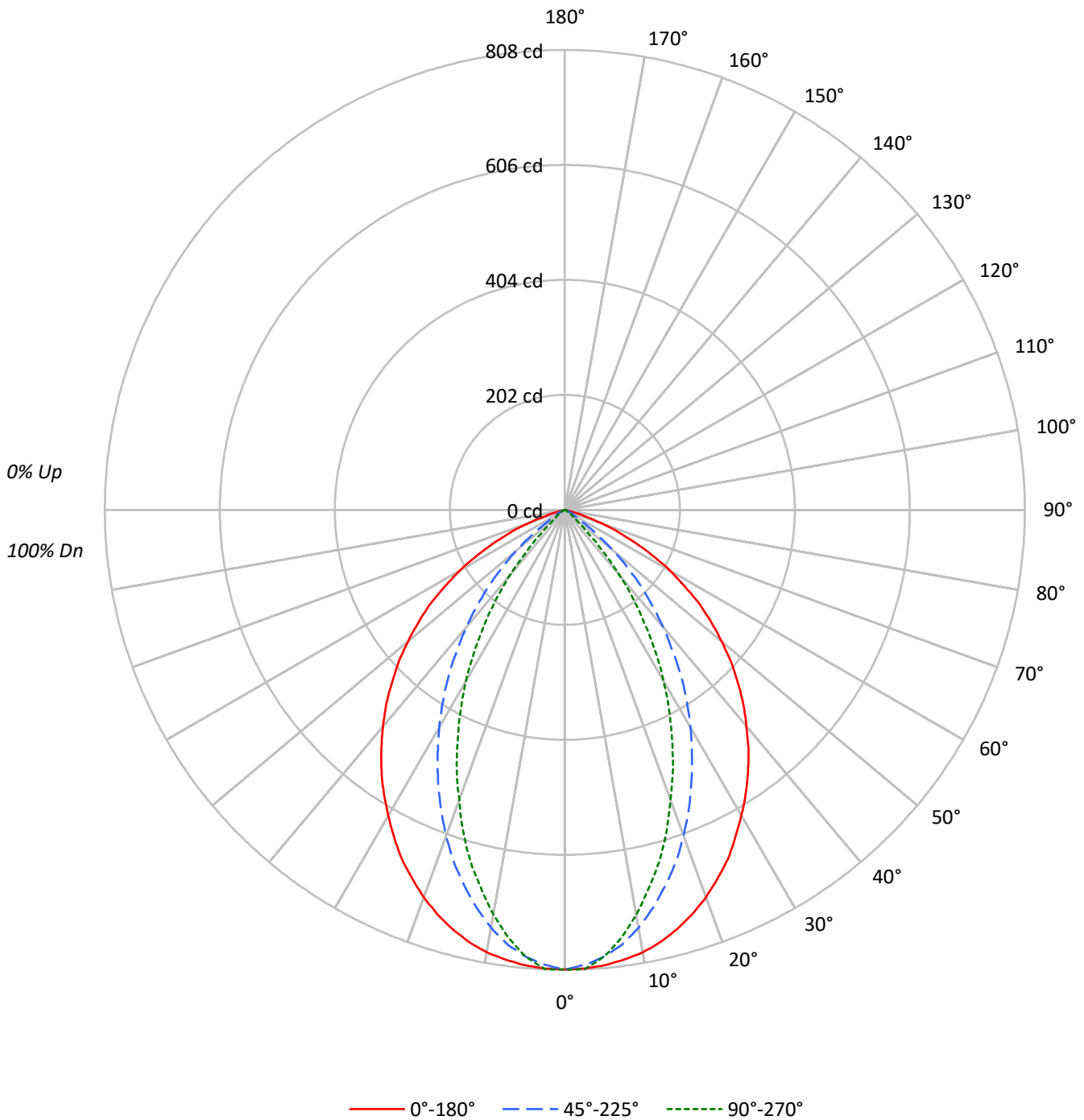
Lumens per Lamp: N/A
Luminaire Lumens: 1043.2 lumens
Efficiency: N/A
Efficacy: 29.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5560	5560	5560
5°	5552	5448	5448
10°	5519	5214	5050
15°	5437	4868	4564
20°	5308	4465	3973
25°	5147	3998	3383
30°	4929	3506	2761
35°	4719	2991	2069
40°	4462	2413	1340
45°	4180	1826	581
50°	3845	1164	216
55°	3466	511	154
60°	2934	220	103
65°	2222	138	52
70°	1351	64	22
75°	285	29	29
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4180 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.4	7.1
10°-20°	194.1	18.6
20°-30°	249.2	23.9
30°-40°	234.5	22.5
40°-50°	164.0	15.7
50°-60°	87.6	8.4
60°-70°	34.9	3.3
70°-80°	4.5	0.4
80°-90°	0.0	0.0
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°	517.6	49.6
0°-40°	752.2	72.1
0°-60°	1003.8	96.2
0°-90°	1043.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1043.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	808	808	808	808	808	
5°	803	801	788	790	788	76
15°	763	738	683	651	640	215
25°	678	618	526	469	445	311
35°	561	472	356	275	246	350
45°	429	322	188	91	60	331
55°	289	177	43	15	13	256
65°	136	54	8	4	3	136
75°	11	3	1	1	1	21
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	807.5	807.5	807.5	807.5	807.5
2.5°	806.5	807.5	800.1	806.5	807.5
5°	803.3	801.1	788.3	790.5	788.3
7.5°	796.9	791.5	770.2	762.8	758.5
10°	789.4	777.7	745.7	729.7	722.3
12.5°	777.7	760.6	715.9	691.4	680.7
15°	762.8	738.3	682.9	650.9	640.3
17.5°	744.7	712.7	648.8	609.4	593.4
20°	724.4	681.8	609.4	562.5	542.2
22.5°	701.0	652.0	568.9	516.7	496.4
25°	677.5	617.9	526.3	468.7	445.3
27.5°	648.8	582.7	483.7	421.9	396.3
30°	620.0	547.6	441.0	373.9	347.3
32.5°	591.3	510.3	398.4	323.9	297.2
35°	561.4	471.9	355.8	274.9	246.1
37.5°	529.5	433.6	310.0	228.0	198.2
40°	496.4	396.3	268.5	182.2	149.1
42.5°	464.5	359.0	226.9	137.4	101.2
45°	429.3	321.7	187.5	90.6	59.7
47.5°	396.3	285.5	147.0	52.2	30.9
50°	359.0	248.2	108.7	27.7	20.2
52.5°	323.9	212.0	72.4	18.1	16.0
55°	288.7	176.8	42.6	14.9	12.8
57.5°	248.2	142.8	23.4	11.7	9.6
60°	213.1	111.9	16.0	8.5	7.5
62.5°	172.6	82.0	11.7	6.4	5.3
65°	136.4	54.3	8.5	4.3	3.2
67.5°	101.2	32.0	5.3	2.1	2.1
70°	67.1	17.0	3.2	1.1	1.1
72.5°	35.2	7.5	2.1	1.1	1.1
75°	10.7	3.2	1.1	1.1	1.1
77.5°	0.0	1.1	0.0	0.0	1.1
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)