

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: P1061491

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061491
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1090D935-X4F0-XX-UDD-SVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

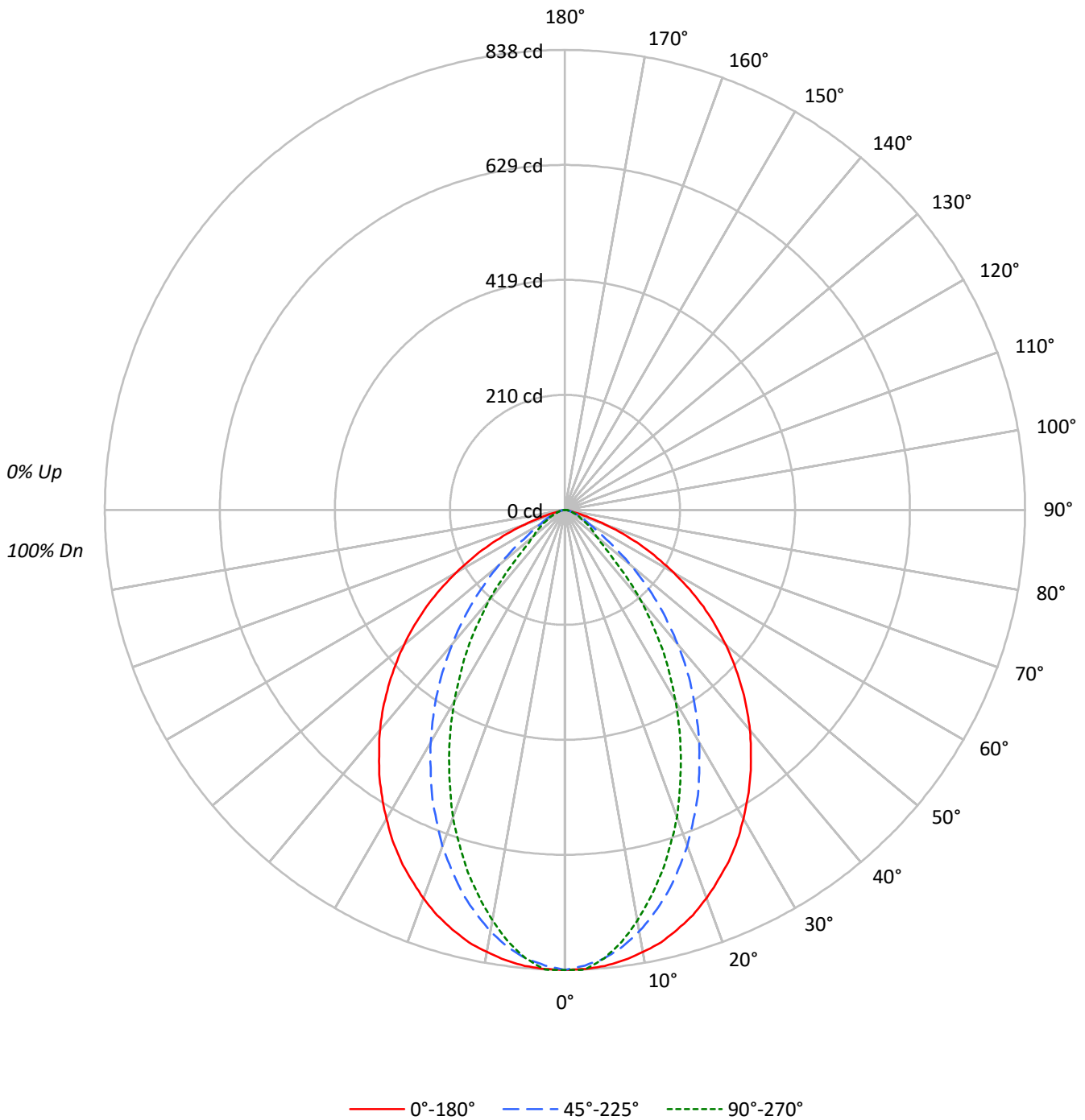
Lumens per Lamp: N/A
Luminaire Lumens: 1212.6 lumens
Efficiency: N/A
Efficacy: 34.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1061491

CATALOG NUMBER: S125RDR-S1090D935-X4F0-XX-UDD-SVL-B

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	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5773	5773	5773
5°	5766	5670	5670
10°	5720	5453	5311
15°	5643	5149	4868
20°	5519	4777	4371
25°	5367	4355	3796
30°	5167	3888	3202
35°	4952	3402	2597
40°	4712	2873	1924
45°	4429	2303	1162
50°	4097	1689	799
55°	3696	1036	665
60°	3140	704	529
65°	2483	538	417
70°	1566	387	342
75°	511	285	285
80°	170	210	254
85°	87	166	166

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4429 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.6	6.4
10°-20°	204.8	16.9
20°-30°	269.4	22.2
30°-40°	264.7	21.8
40°-50°	200.2	16.5
50°-60°	121.4	10.0
60°-70°	57.3	4.7
70°-80°	15.0	1.2
80°-90°	2.3	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°	551.7	45.5
0°-40°	816.4	67.3
0°-60°	1138.1	93.9
0°-90°	1212.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1212.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	838	838	838	838	838	
5°	834	832	820	821	820	79
15°	792	770	722	695	683	223
25°	706	653	573	520	500	325
35°	589	510	405	334	309	368
45°	455	358	236	150	119	350
55°	308	211	86	59	55	274
65°	152	78	33	28	26	150
75°	19	13	11	11	11	30
85°	1	1	2	2	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	838.5	838.5	838.5	838.5	838.5
2.5°	837.4	837.4	831.0	838.5	838.5
5°	834.2	832.1	820.4	821.4	820.4
7.5°	827.8	823.6	803.3	798.0	793.7
10°	818.2	809.7	779.9	767.1	759.6
12.5°	807.6	792.7	752.2	734.1	722.3
15°	791.6	770.3	722.3	694.6	682.9
17.5°	774.5	743.6	687.2	654.2	639.2
20°	753.2	717.0	652.0	611.5	596.6
22.5°	729.8	687.2	611.5	566.8	546.5
25°	706.4	653.1	573.2	519.9	499.7
27.5°	679.7	619.0	529.5	474.1	451.7
30°	649.9	584.9	489.0	431.5	402.7
32.5°	620.1	549.7	446.4	383.5	354.8
35°	589.2	510.3	404.8	333.5	309.0
37.5°	556.1	473.0	362.2	287.7	258.9
40°	524.2	435.7	319.6	240.8	214.1
42.5°	490.1	398.5	277.0	195.0	165.1
45°	454.9	358.0	236.5	150.2	119.3
47.5°	418.7	321.7	196.0	110.8	89.5
50°	382.5	283.4	157.7	82.0	74.6
52.5°	345.2	246.1	119.3	68.2	65.0
55°	307.9	210.9	86.3	58.6	55.4
57.5°	269.5	172.6	65.0	50.1	46.9
60°	228.0	138.5	51.1	41.6	38.4
62.5°	189.6	108.7	41.6	34.1	32.0
65°	152.4	77.8	33.0	27.7	25.6
67.5°	114.0	52.2	25.6	21.3	21.3
70°	77.8	34.1	19.2	17.0	17.0
72.5°	46.9	20.2	13.9	13.9	13.9
75°	19.2	12.8	10.7	10.7	10.7
77.5°	6.4	7.5	7.5	8.5	8.5
80°	4.3	4.3	5.3	6.4	6.4
82.5°	2.1	3.2	3.2	4.3	4.3
85°	1.1	1.1	2.1	2.1	2.1
87.5°	0.0	0.0	0.0	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)