

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: P1061666

Luminaire Tested: S125RDR-S375D940-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061666
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S375D940-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

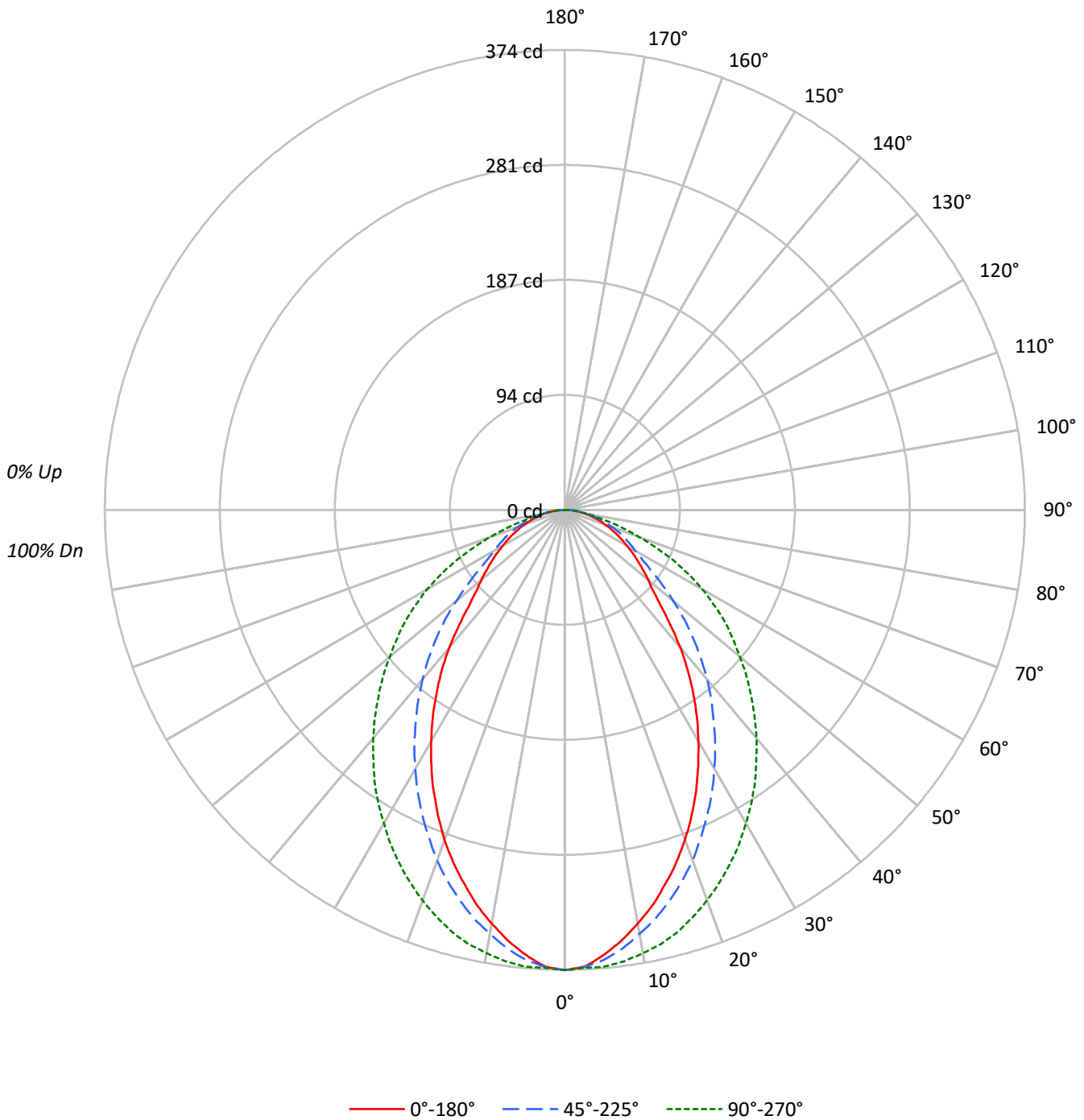
Lumens per Lamp: N/A
Luminaire Lumens: 701.6 lumens
Efficiency: N/A
Efficacy: 56.1 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
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	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46	44
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2577	2577	2577
5°	2512	2538	2577
10°	2389	2449	2559
15°	2247	2345	2532
20°	2093	2225	2477
25°	1917	2082	2414
30°	1727	1932	2340
35°	1527	1775	2266
40°	1310	1616	2178
45°	1070	1438	2086
50°	949	1234	1990
55°	870	1023	1907
60°	803	906	1776
65°	749	872	1584
70°	701	827	1294
75°	646	777	955
80°	607	726	698
85°	561	711	592

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2086 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.6	4.9
10°-20°	93.3	13.3
20°-30°	128.2	18.3
30°-40°	135.9	19.4
40°-50°	118.6	16.9
50°-60°	90.1	12.8
60°-70°	60.4	8.6
70°-80°	31.1	4.4
80°-90°	9.3	1.3
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°	256.2	36.5
0°-40°	392.0	55.9
0°-60°	600.8	85.6
0°-90°	701.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	701.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	374	374	374	374	374	
5°	363	367	367	370	373	34
15°	315	321	329	344	355	88
25°	252	260	274	297	318	116
35°	182	192	211	241	270	113
45°	110	121	148	183	214	87
55°	72	75	85	125	159	65
65°	46	47	54	71	97	46
75°	24	26	29	31	36	26
85°	7	9	9	8	8	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	374.3	374.3	374.3	374.3	374.3
2.5°	371.7	374.3	372.0	372.0	372.8
5°	363.4	367.2	367.2	369.8	372.8
7.5°	353.3	357.4	359.7	365.7	370.2
10°	341.7	346.2	350.3	359.3	366.0
12.5°	329.4	334.3	340.6	352.2	361.6
15°	315.2	321.2	329.0	343.6	355.2
17.5°	301.0	307.0	316.7	333.9	347.0
20°	285.7	292.0	303.6	322.3	338.0
22.5°	269.2	276.3	288.6	310.0	328.3
25°	252.4	260.2	274.1	296.9	317.8
27.5°	234.8	244.2	259.1	283.4	306.6
30°	217.2	226.6	243.0	269.6	294.3
32.5°	199.7	209.8	227.7	255.7	282.3
35°	181.7	192.2	211.2	241.2	269.6
37.5°	164.1	174.6	195.9	227.0	255.7
40°	145.8	156.7	179.8	212.4	242.3
42.5°	127.1	138.7	163.8	197.4	228.4
45°	109.9	120.8	147.7	182.8	214.2
47.5°	97.2	104.3	131.6	167.9	200.4
50°	88.6	92.4	115.2	153.3	185.8
52.5°	80.0	83.0	99.8	138.3	172.0
55°	72.5	74.8	85.2	125.3	158.9
57.5°	65.1	67.3	74.0	112.2	143.6
60°	58.3	60.2	65.8	98.3	129.0
62.5°	52.0	53.5	59.4	85.2	113.3
65°	46.0	47.1	53.5	71.4	97.2
67.5°	40.0	41.1	47.5	58.3	80.0
70°	34.8	35.1	41.1	47.5	64.3
72.5°	29.5	29.9	34.8	38.5	49.4
75°	24.3	25.8	29.2	31.0	35.9
77.5°	19.8	21.7	23.6	24.3	24.3
80°	15.3	17.6	18.3	18.3	17.6
82.5°	11.2	13.1	13.5	12.7	12.0
85°	7.1	9.0	9.0	8.2	7.5
87.5°	3.4	4.9	4.9	4.5	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)