

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: P1061648

Luminaire Tested: S125RDR-S375D930-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061648
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-S375D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

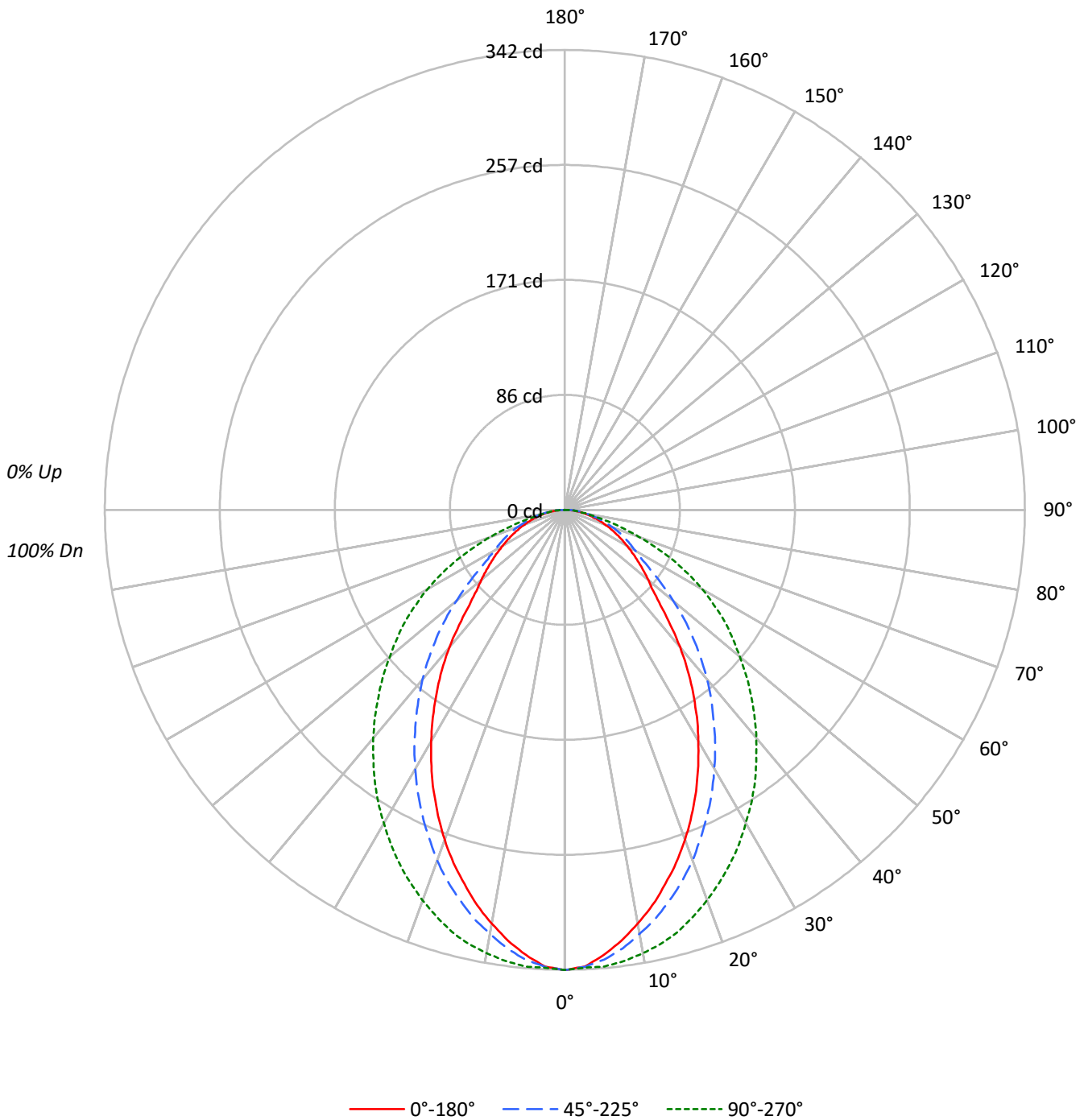
Lumens per Lamp: N/A
Luminaire Lumens: 641.5 lumens
Efficiency: N/A
Efficacy: 51.3 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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																		
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	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°	2356	2356	2356
5°	2297	2320	2355
10°	2185	2239	2340
15°	2054	2144	2315
20°	1914	2034	2264
25°	1753	1904	2208
30°	1579	1767	2139
35°	1396	1623	2072
40°	1198	1478	1991
45°	979	1315	1908
50°	868	1128	1820
55°	796	935	1744
60°	734	829	1624
65°	684	797	1448
70°	640	757	1184
75°	591	710	873
80°	555	666	638
85°	513	648	537

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1908 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.7	4.9
10°-20°	85.3	13.3
20°-30°	117.2	18.3
30°-40°	124.2	19.4
40°-50°	108.4	16.9
50°-60°	82.4	12.8
60°-70°	55.2	8.6
70°-80°	28.5	4.4
80°-90°	8.5	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°	234.2	36.5
0°-40°	358.4	55.9
0°-60°	549.3	85.6
0°-90°	641.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	641.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	342	342	342	342	342	
5°	332	336	336	338	341	31
15°	288	294	301	314	325	81
25°	231	238	251	271	291	106
35°	166	176	193	220	246	104
45°	100	110	135	167	196	79
55°	66	68	78	114	145	59
65°	42	43	49	65	89	42
75°	22	24	27	28	33	24
85°	6	8	8	8	7	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	342.2	342.2	342.2	342.2	342.2
2.5°	339.8	342.2	340.1	340.1	340.8
5°	332.3	335.7	335.7	338.1	340.8
7.5°	323.1	326.8	328.9	334.3	338.4
10°	312.5	316.6	320.3	328.5	334.7
12.5°	301.2	305.6	311.4	322.0	330.6
15°	288.2	293.7	300.8	314.2	324.8
17.5°	275.2	280.7	289.6	305.3	317.2
20°	261.2	267.0	277.6	294.7	309.0
22.5°	246.1	252.6	263.9	283.4	300.1
25°	230.8	237.9	250.6	271.4	290.6
27.5°	214.7	223.2	236.9	259.1	280.3
30°	198.6	207.2	222.2	246.5	269.0
32.5°	182.6	191.8	208.2	233.8	258.1
35°	166.1	175.7	193.1	220.5	246.5
37.5°	150.1	159.6	179.1	207.5	233.8
40°	133.3	143.2	164.4	194.2	221.5
42.5°	116.2	126.8	149.7	180.5	208.9
45°	100.5	110.4	135.0	167.2	195.9
47.5°	88.9	95.4	120.3	153.5	183.2
50°	81.0	84.4	105.3	140.2	169.9
52.5°	73.2	75.9	91.3	126.5	157.3
55°	66.3	68.4	77.9	114.5	145.3
57.5°	59.5	61.5	67.7	102.6	131.3
60°	53.3	55.0	60.2	89.9	117.9
62.5°	47.5	48.9	54.4	77.9	103.6
65°	42.0	43.1	48.9	65.3	88.9
67.5°	36.6	37.6	43.4	53.3	73.2
70°	31.8	32.1	37.6	43.4	58.8
72.5°	27.0	27.3	31.8	35.2	45.1
75°	22.2	23.6	26.7	28.4	32.8
77.5°	18.1	19.8	21.5	22.2	22.2
80°	14.0	16.1	16.8	16.8	16.1
82.5°	10.3	12.0	12.3	11.6	10.9
85°	6.5	8.2	8.2	7.5	6.8
87.5°	3.1	4.4	4.4	4.1	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)