

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: P1061669

Luminaire Tested: S125RDR-S375D950-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061669
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S375D950-X4F0-XX-UDD-BVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

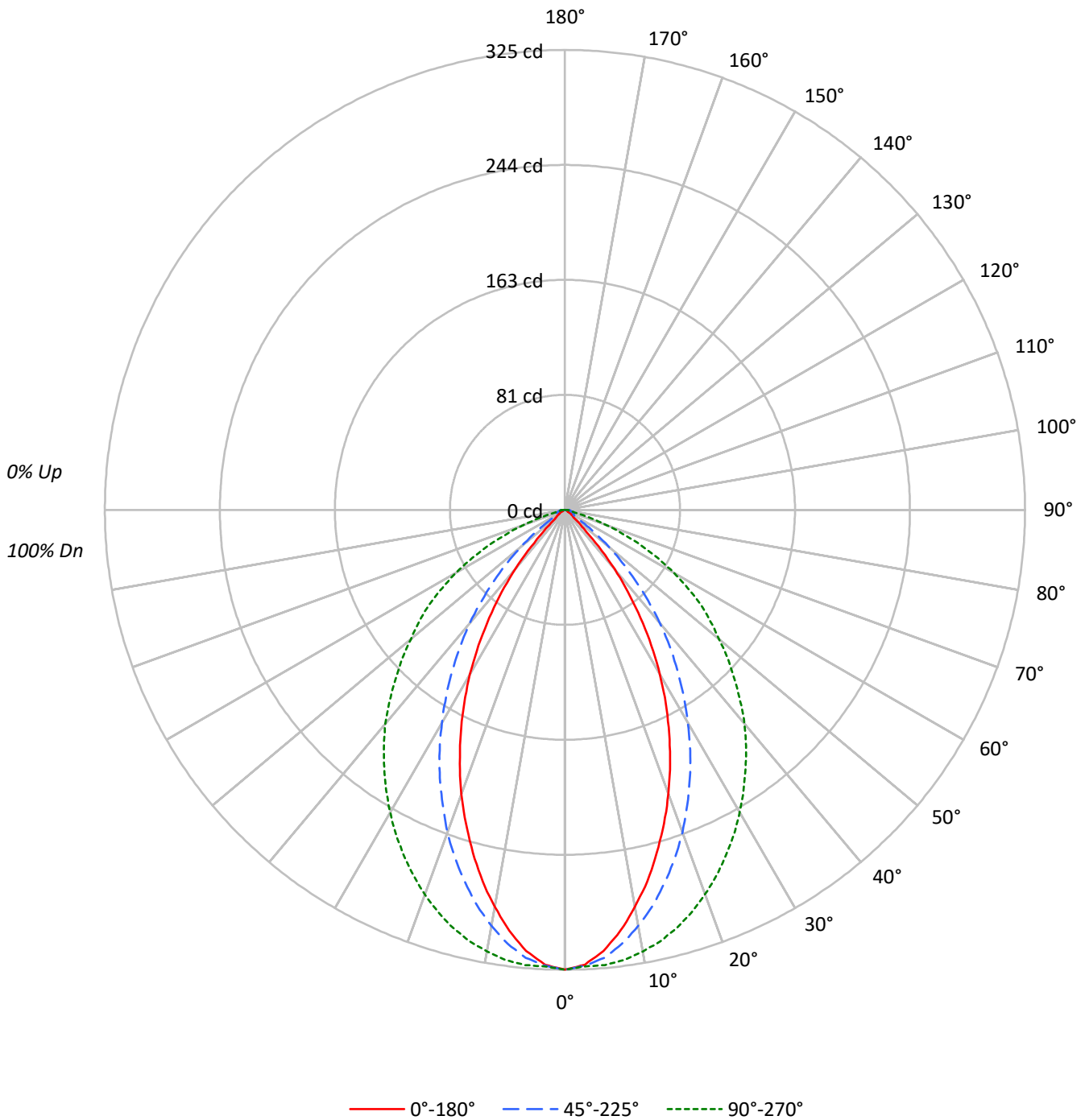
Lumens per Lamp: N/A
Luminaire Lumens: 417.9 lumens
Efficiency: N/A
Efficacy: 33.4 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1061669

CATALOG NUMBER: S125RDR-S375D950-X4F0-XX-UDD-BVL-S

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81				
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72				
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65				
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59				
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54				
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49				
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45				
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42				
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2237	2237	2237
5°	2163	2196	2232
10°	1992	2087	2216
15°	1788	1942	2179
20°	1566	1777	2120
25°	1323	1587	2046
30°	1066	1381	1963
35°	783	1164	1870
40°	489	938	1773
45°	183	685	1649
50°	86	428	1522
55°	62	178	1408
60°	44	94	1217
65°	26	111	964
70°	24	129	612
75°	32	128	192
80°	48	159	143
85°	95	253	190

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1649 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.8	7.1
10°-20°	77.1	18.5
20°-30°	98.3	23.5
30°-40°	91.5	21.9
40°-50°	62.7	15.0
50°-60°	34.5	8.3
60°-70°	16.3	3.9
70°-80°	5.1	1.2
80°-90°	2.6	0.6
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°	205.2	49.1
0°-40°	296.7	71.0
0°-60°	393.8	94.2
0°-90°	417.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	417.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	325	325	325	325	325	
5°	313	317	318	320	323	29
15°	251	259	272	293	306	70
25°	174	185	209	242	269	79
35°	93	106	138	184	222	58
45°	19	32	70	125	169	18
55°	5	6	15	70	117	5
65°	2	2	7	26	59	2
75°	1	2	5	5	7	1
85°	1	3	3	3	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	324.9	324.9	324.9	324.9	324.9
2.5°	321.7	324.9	322.5	322.5	322.9
5°	312.9	316.9	317.7	320.1	322.9
7.5°	300.1	305.3	309.3	316.1	320.9
10°	284.9	291.3	298.5	309.7	316.9
12.5°	268.9	275.7	286.5	302.1	312.1
15°	250.9	258.9	272.5	292.9	305.7
17.5°	232.5	241.3	258.1	282.1	298.1
20°	213.7	222.9	242.5	269.3	289.3
22.5°	194.1	204.1	225.7	256.1	279.7
25°	174.1	184.9	208.9	242.5	269.3
27.5°	154.1	165.3	191.7	228.5	258.5
30°	134.1	145.7	173.7	214.1	246.9
32.5°	113.6	126.5	156.1	199.7	234.9
35°	93.2	106.4	138.5	184.1	222.5
37.5°	73.2	86.8	121.3	169.3	210.1
40°	54.4	68.0	104.4	154.5	197.3
42.5°	35.2	49.6	86.8	139.3	183.3
45°	18.8	31.6	70.4	124.9	169.3
47.5°	10.0	16.8	54.8	110.4	156.1
50°	8.0	9.2	40.0	96.0	142.1
52.5°	6.4	7.2	25.6	81.2	129.7
55°	5.2	6.0	14.8	69.6	117.3
57.5°	4.0	4.8	8.4	58.0	102.8
60°	3.2	3.6	6.8	46.4	88.4
62.5°	2.0	2.8	6.8	36.0	74.0
65°	1.6	2.0	6.8	25.6	59.2
67.5°	1.6	1.6	6.8	16.8	44.4
70°	1.2	1.2	6.4	10.8	30.4
72.5°	1.2	1.2	5.6	7.2	17.6
75°	1.2	2.0	4.8	5.2	7.2
77.5°	1.2	3.2	4.4	4.4	4.0
80°	1.2	3.2	4.0	3.6	3.6
82.5°	1.2	3.2	3.2	3.2	2.8
85°	1.2	2.8	3.2	2.8	2.4
87.5°	1.2	2.8	2.8	2.8	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)