

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: P1061632

Luminaire Tested: S125RDR-S375D927-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061632
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-S375D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

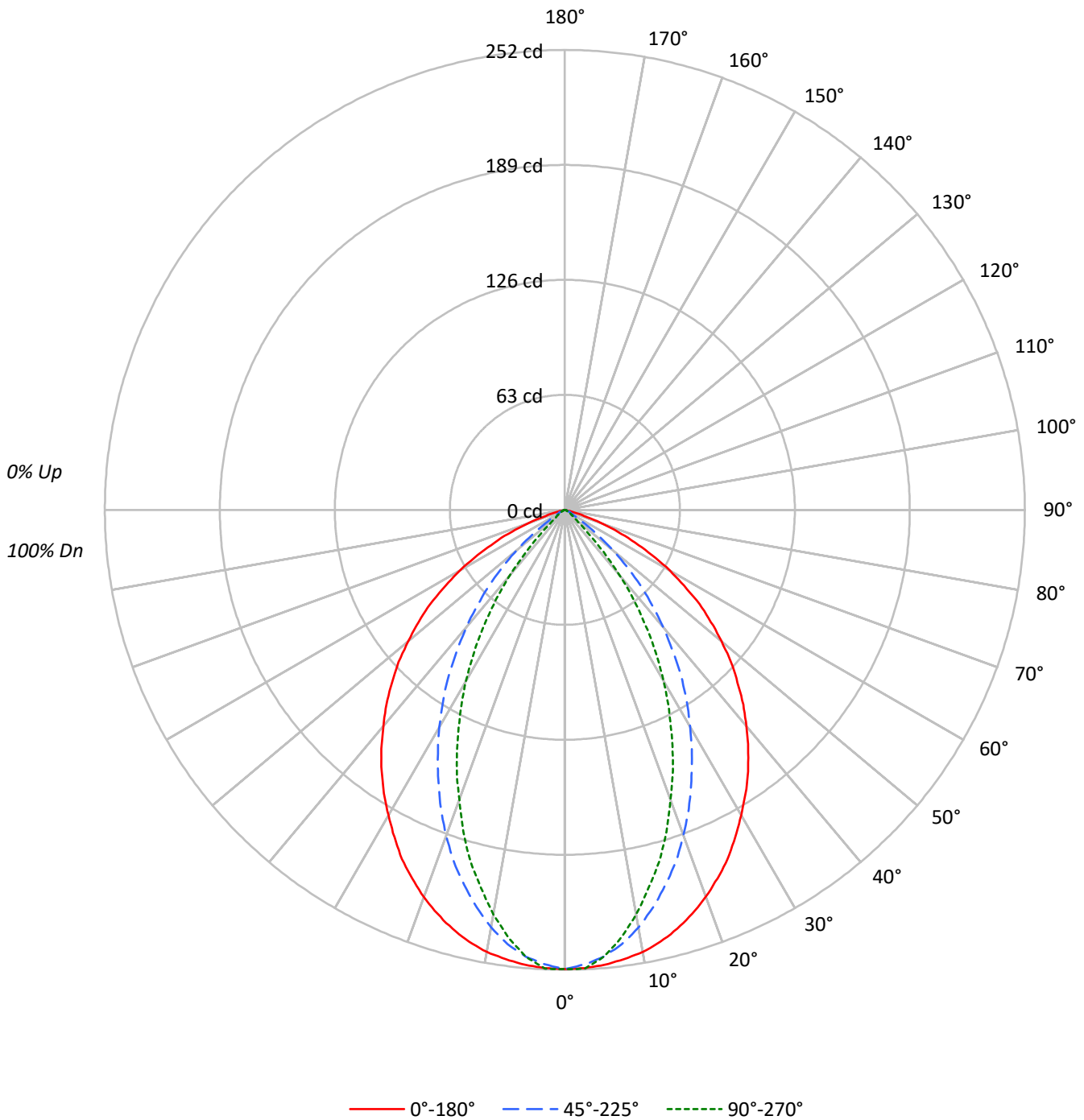
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 325.1 lumens
Efficiency: N/A
Efficacy: 26.0 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): 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	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°	1732	1732	1732
5°	1730	1698	1698
10°	1720	1625	1574
15°	1694	1517	1422
20°	1654	1391	1238
25°	1604	1246	1054
30°	1536	1092	860
35°	1471	932	645
40°	1390	752	418
45°	1303	569	181
50°	1199	363	67
55°	1080	160	48
60°	914	69	32
65°	692	44	16
70°	421	20	6
75°	88	8	8
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1303 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.2	7.1
10°-20°	60.5	18.6
20°-30°	77.6	23.9
30°-40°	73.1	22.5
40°-50°	51.1	15.7
50°-60°	27.3	8.4
60°-70°	10.9	3.4
70°-80°	1.4	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°	161.3	49.6
0°-40°	234.4	72.1
0°-60°	312.8	96.2
0°-90°	325.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	325.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	252	252	252	252	252	
5°	250	250	246	246	246	24
15°	238	230	213	203	200	67
25°	211	193	164	146	139	97
35°	175	147	111	86	77	109
45°	134	100	58	28	19	103
55°	90	55	13	5	4	80
65°	42	17	3	1	1	42
75°	3	1	0	0	0	6
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°	251.6	251.6	251.6	251.6	251.6
2.5°	251.3	251.6	249.3	251.3	251.6
5°	250.3	249.7	245.7	246.3	245.7
7.5°	248.3	246.7	240.0	237.7	236.4
10°	246.0	242.4	232.4	227.4	225.1
12.5°	242.4	237.0	223.1	215.5	212.1
15°	237.7	230.1	212.8	202.8	199.5
17.5°	232.1	222.1	202.2	189.9	184.9
20°	225.8	212.5	189.9	175.3	169.0
22.5°	218.5	203.2	177.3	161.0	154.7
25°	211.1	192.6	164.0	146.1	138.8
27.5°	202.2	181.6	150.7	131.5	123.5
30°	193.2	170.6	137.4	116.5	108.2
32.5°	184.3	159.0	124.2	100.9	92.6
35°	175.0	147.1	110.9	85.7	76.7
37.5°	165.0	135.1	96.6	71.0	61.8
40°	154.7	123.5	83.7	56.8	46.5
42.5°	144.7	111.9	70.7	42.8	31.5
45°	133.8	100.3	58.4	28.2	18.6
47.5°	123.5	89.0	45.8	16.3	9.6
50°	111.9	77.4	33.9	8.6	6.3
52.5°	100.9	66.1	22.6	5.6	5.0
55°	90.0	55.1	13.3	4.6	4.0
57.5°	77.4	44.5	7.3	3.7	3.0
60°	66.4	34.9	5.0	2.7	2.3
62.5°	53.8	25.6	3.7	2.0	1.7
65°	42.5	16.9	2.7	1.3	1.0
67.5°	31.5	10.0	1.7	0.7	0.7
70°	20.9	5.3	1.0	0.3	0.3
72.5°	11.0	2.3	0.7	0.3	0.3
75°	3.3	1.0	0.3	0.3	0.3
77.5°	0.0	0.3	0.0	0.0	0.3
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)