

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: P1061638

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061638
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-46)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S375D927-X4F0-XX-UDD-WVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

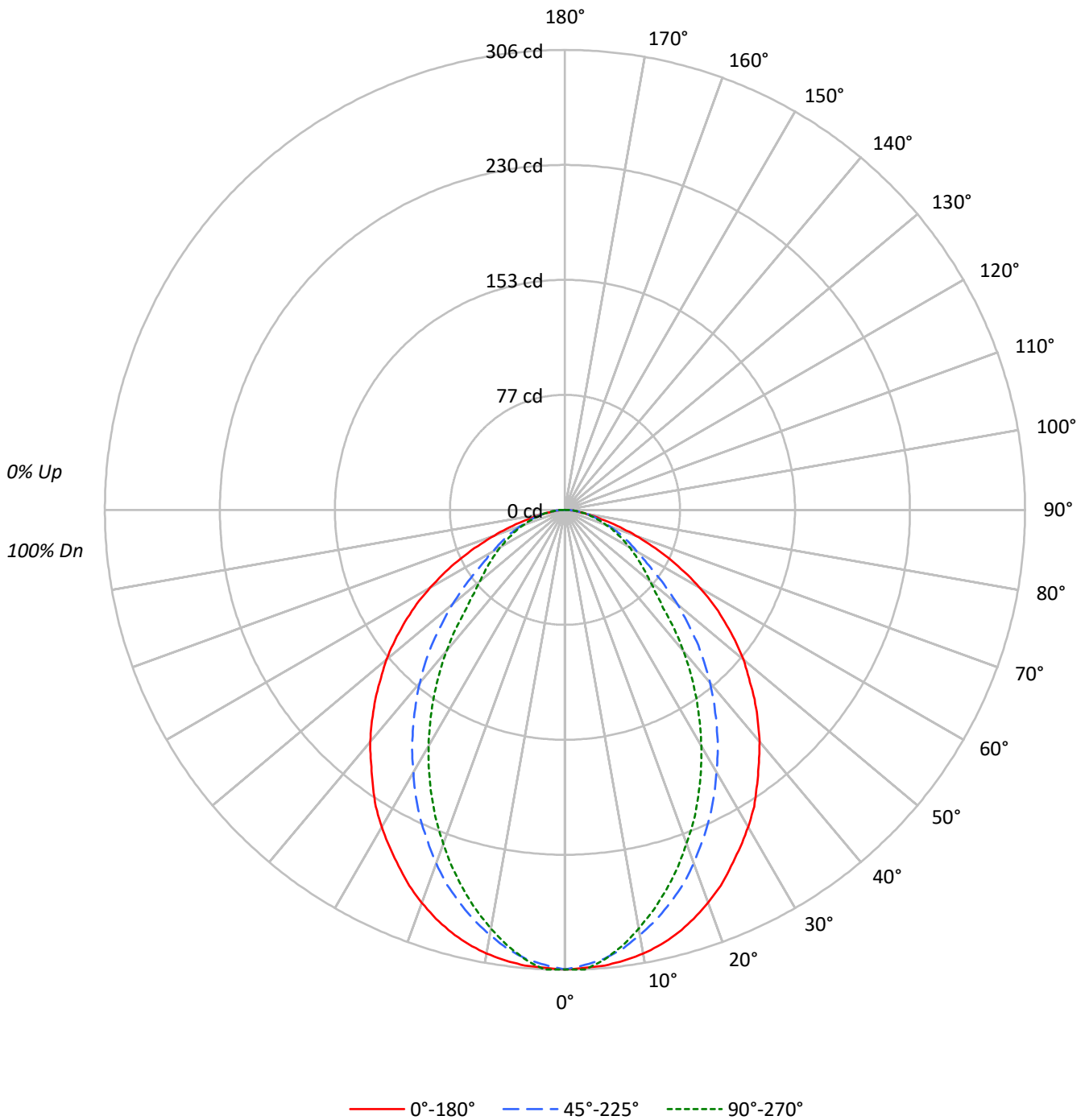
Lumens per Lamp: N/A
Luminaire Lumens: 579.2 lumens
Efficiency: N/A
Efficacy: 46.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	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	108	104	100	97	100	97	94	96	93	91	92	90	89	87				
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75				
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65				
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57				
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50				
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45				
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40				
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36				
9	61	48	41	35	60	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°	2106	2106	2106
5°	2104	2072	2077
10°	2096	2008	1978
15°	2076	1929	1863
20°	2038	1834	1732
25°	1987	1725	1594
30°	1938	1602	1441
35°	1873	1479	1278
40°	1811	1349	1101
45°	1736	1205	902
50°	1660	1045	789
55°	1558	873	730
60°	1422	763	682
65°	1245	697	632
70°	1009	628	588
75°	724	575	548
80°	500	511	511
85°	363	442	474

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1736 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.4	4.9
10°-20°	76.9	13.3
20°-30°	106.3	18.3
30°-40°	113.2	19.5
40°-50°	99.4	17.2
50°-60°	75.4	13.0
60°-70°	49.0	8.5
70°-80°	24.3	4.2
80°-90°	6.3	1.1
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°	211.6	36.5
0°-40°	324.8	56.1
0°-60°	499.7	86.3
0°-90°	579.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	579.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	306	306	306	306	306	
5°	304	304	300	301	300	29
15°	291	284	271	264	261	82
25°	262	247	227	216	210	121
35°	223	202	176	160	152	139
45°	178	153	124	102	93	137
55°	130	104	73	63	61	116
65°	76	57	43	40	39	75
75°	27	24	22	21	21	30
85°	5	5	6	6	6	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	305.8	305.8	305.8	305.8	305.8
2.5°	305.1	305.8	303.1	305.4	306.1
5°	304.4	303.8	299.8	300.8	300.5
7.5°	302.5	301.1	294.5	293.8	292.5
10°	299.8	296.5	287.2	284.9	282.9
12.5°	296.1	290.8	279.5	274.9	272.6
15°	291.2	284.5	270.6	264.3	261.3
17.5°	285.2	275.9	261.3	252.7	249.3
20°	278.2	267.3	250.3	240.4	236.4
22.5°	270.6	257.6	238.7	228.1	223.8
25°	261.6	247.3	227.1	215.5	209.8
27.5°	252.7	236.7	214.8	201.9	195.9
30°	243.7	225.4	201.5	187.6	181.3
32.5°	234.1	213.8	189.2	174.0	166.7
35°	222.8	202.2	176.0	160.0	152.1
37.5°	211.8	189.9	163.0	145.1	137.4
40°	201.5	178.3	150.1	130.5	122.5
42.5°	189.9	166.0	137.1	116.5	107.6
45°	178.3	153.4	123.8	101.6	92.6
47.5°	166.0	141.4	109.9	88.0	82.0
50°	155.0	129.1	97.6	77.7	73.7
52.5°	142.4	117.2	85.0	69.7	67.1
55°	129.8	104.2	72.7	62.7	60.8
57.5°	116.9	92.6	63.1	56.8	54.8
60°	103.3	80.7	55.4	50.5	49.5
62.5°	89.6	68.4	48.8	45.2	43.8
65°	76.4	56.8	42.8	39.5	38.8
67.5°	62.7	46.1	36.9	34.5	34.2
70°	50.1	37.5	31.2	29.9	29.2
72.5°	38.5	29.9	26.2	25.2	24.9
75°	27.2	23.9	21.6	20.9	20.6
77.5°	18.3	18.3	17.3	16.6	16.9
80°	12.6	13.3	12.9	12.9	12.9
82.5°	8.3	9.0	9.3	9.3	9.3
85°	4.6	5.3	5.6	5.6	6.0
87.5°	1.7	2.0	2.3	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)