

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: P1061639

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061639
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-S375D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

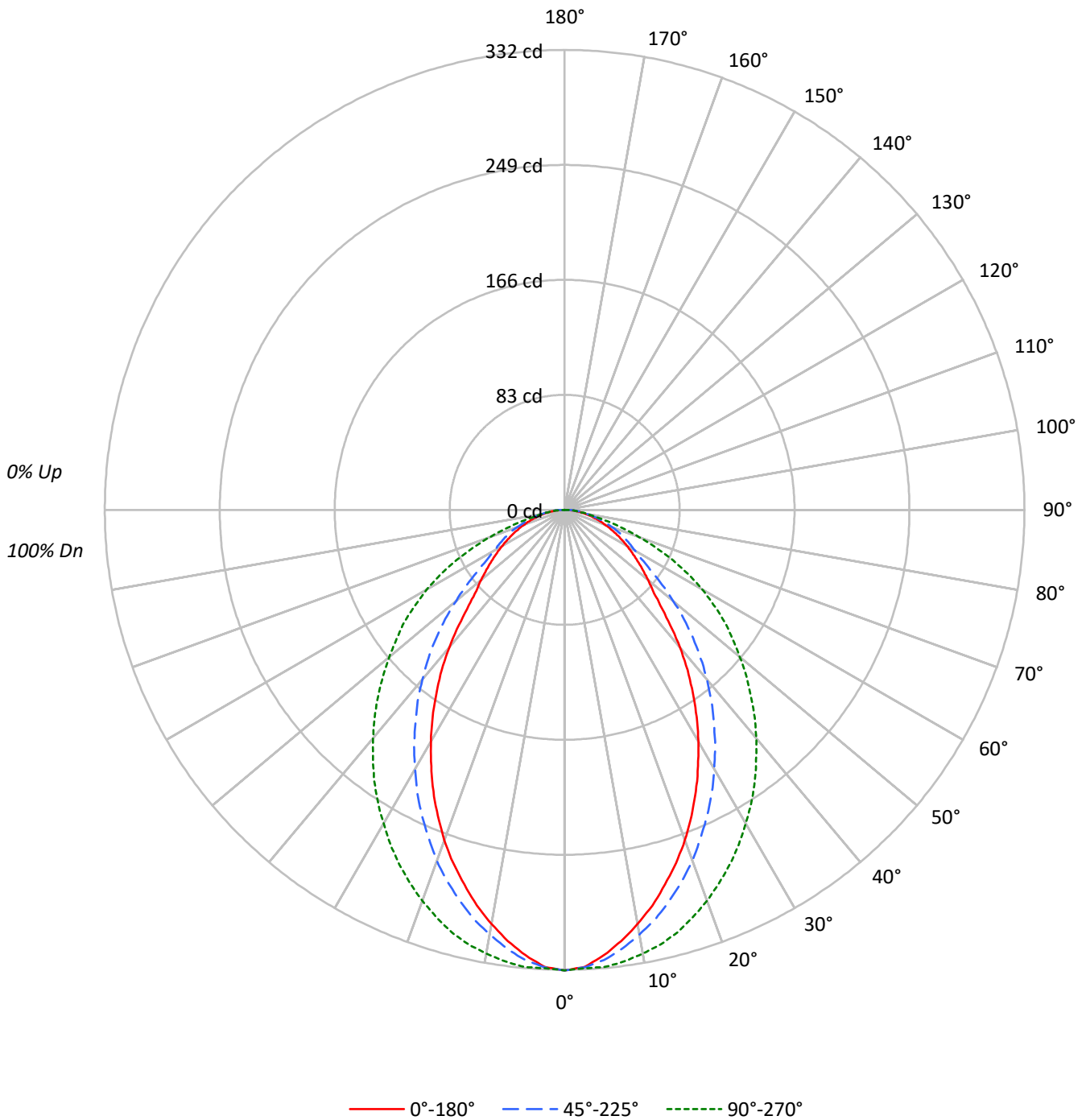
Lumens per Lamp: N/A
Luminaire Lumens: 623.3 lumens
Efficiency: N/A
Efficacy: 49.9 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	0														
RCR																																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100	100														
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86	86	86	86	86	86	86														
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74	74	74	74	74	74	74														
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64	64	64	64	64	64	64														
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56	56	56	56	56	56	56														
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50	50	50	50	50	50	50														
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46	44	44	44	44	44	44	44														
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40	40	40	40	40	40	40														
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36	36	36	36	36	36	36														
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33	33	33	33	33	33	33														
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30	30	30	30	30	30	30														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2289	2289	2289
5°	2232	2255	2289
10°	2123	2176	2274
15°	1996	2084	2250
20°	1860	1976	2200
25°	1703	1850	2145
30°	1534	1716	2078
35°	1357	1578	2013
40°	1164	1436	1934
45°	951	1278	1853
50°	843	1096	1768
55°	773	909	1695
60°	713	806	1578
65°	666	774	1408
70°	622	735	1149
75°	575	689	849
80°	539	646	619
85°	498	632	521

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1853 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.8	4.9
10°-20°	82.9	13.3
20°-30°	113.9	18.3
30°-40°	120.7	19.4
40°-50°	105.4	16.9
50°-60°	80.1	12.8
60°-70°	53.6	8.6
70°-80°	27.7	4.4
80°-90°	8.3	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°	227.6	36.5
0°-40°	348.3	55.9
0°-60°	533.7	85.6
0°-90°	623.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	623.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	332	332	332	332	332	
5°	323	326	326	328	331	30
15°	280	285	292	305	316	79
25°	224	231	244	264	282	103
35°	161	171	188	214	240	101
45°	98	107	131	162	190	77
55°	64	66	76	111	141	58
65°	41	42	48	63	86	41
75°	22	23	26	28	32	23
85°	6	8	8	7	7	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	332.5	332.5	332.5	332.5	332.5
2.5°	330.2	332.5	330.5	330.5	331.2
5°	322.9	326.2	326.2	328.5	331.2
7.5°	313.9	317.5	319.5	324.9	328.8
10°	303.6	307.6	311.2	319.2	325.2
12.5°	292.6	297.0	302.6	312.9	321.2
15°	280.0	285.3	292.3	305.3	315.6
17.5°	267.4	272.7	281.3	296.6	308.2
20°	253.8	259.4	269.7	286.3	300.3
22.5°	239.2	245.5	256.4	275.4	291.6
25°	224.2	231.2	243.5	263.7	282.3
27.5°	208.6	216.9	230.2	251.8	272.4
30°	193.0	201.3	215.9	239.5	261.4
32.5°	177.4	186.3	202.3	227.2	250.8
35°	161.4	170.7	187.7	214.2	239.5
37.5°	145.8	155.1	174.1	201.6	227.2
40°	129.5	139.2	159.8	188.7	215.2
42.5°	112.9	123.2	145.5	175.4	203.0
45°	97.7	107.3	131.2	162.4	190.3
47.5°	86.4	92.7	116.9	149.1	178.0
50°	78.7	82.0	102.3	136.2	165.1
52.5°	71.1	73.7	88.7	122.9	152.8
55°	64.4	66.4	75.7	111.3	141.2
57.5°	57.8	59.8	65.8	99.6	127.5
60°	51.8	53.5	58.5	87.4	114.6
62.5°	46.2	47.5	52.8	75.7	100.6
65°	40.9	41.9	47.5	63.4	86.4
67.5°	35.5	36.5	42.2	51.8	71.1
70°	30.9	31.2	36.5	42.2	57.1
72.5°	26.2	26.6	30.9	34.2	43.8
75°	21.6	22.9	25.9	27.6	31.9
77.5°	17.6	19.3	20.9	21.6	21.6
80°	13.6	15.6	16.3	16.3	15.6
82.5°	10.0	11.6	12.0	11.3	10.6
85°	6.3	8.0	8.0	7.3	6.6
87.5°	3.0	4.3	4.3	4.0	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)