

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: P1061656

Luminaire Tested: S125RDR-S375D935-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061656
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-S375D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

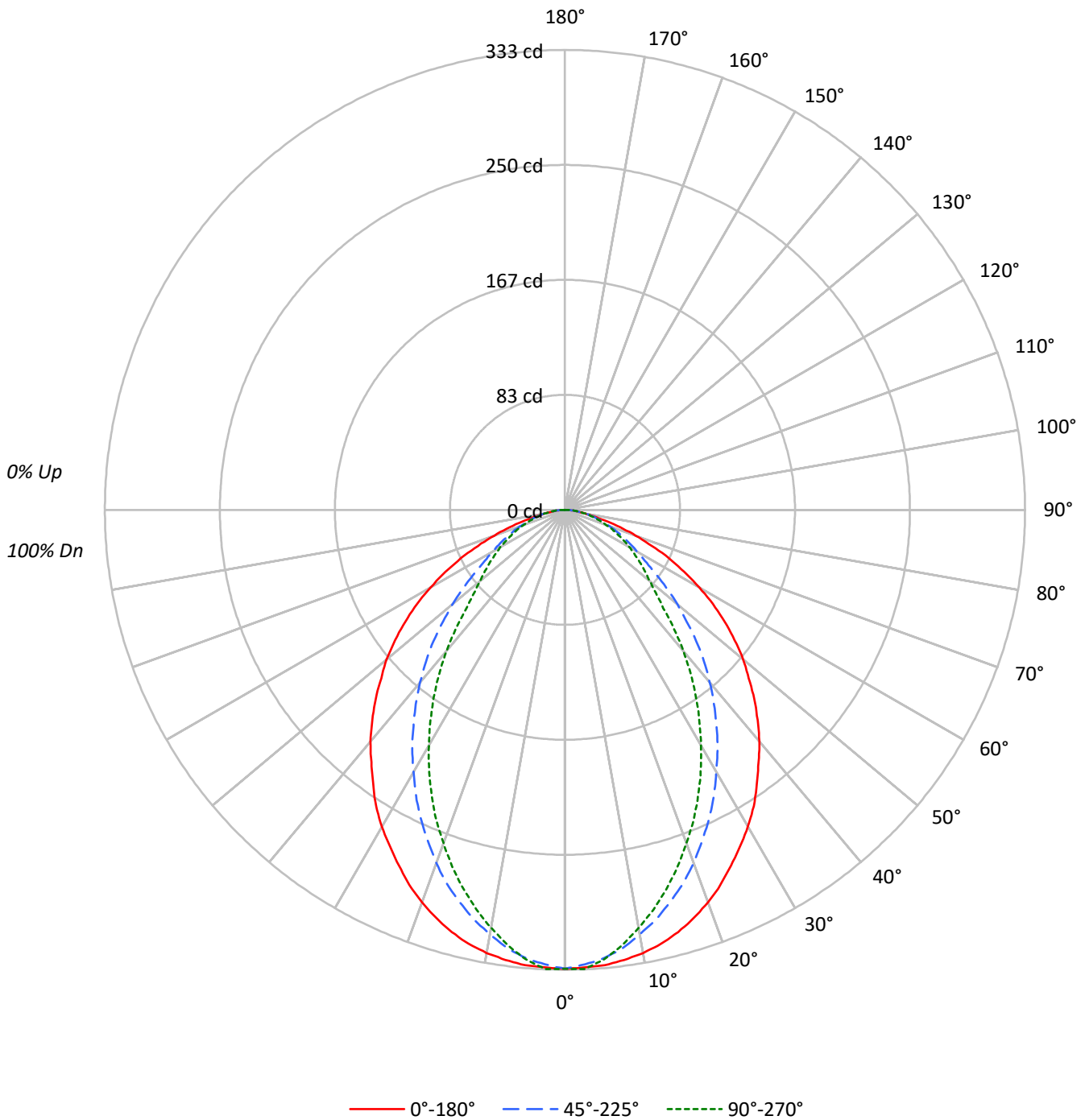
Lumens per Lamp: N/A
Luminaire Lumens: 629.6 lumens
Efficiency: N/A
Efficacy: 50.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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									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	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°	2288	2288	2288
5°	2287	2252	2257
10°	2278	2182	2149
15°	2256	2096	2024
20°	2216	1994	1882
25°	2160	1875	1733
30°	2106	1741	1566
35°	2035	1607	1389
40°	1968	1466	1197
45°	1887	1311	981
50°	1805	1136	858
55°	1694	948	792
60°	1545	830	741
65°	1352	758	688
70°	1097	682	640
75°	787	625	596
80°	543	559	559
85°	403	482	513

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1887 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.9	4.9
10°-20°	83.6	13.3
20°-30°	115.5	18.3
30°-40°	123.0	19.5
40°-50°	108.1	17.2
50°-60°	82.0	13.0
60°-70°	53.2	8.5
70°-80°	26.4	4.2
80°-90°	6.9	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°	230.0	36.5
0°-40°	353.0	56.1
0°-60°	543.1	86.3
0°-90°	629.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	629.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	332	332	332	332	332	
5°	331	330	326	327	327	31
15°	316	309	294	287	284	89
25°	284	269	247	234	228	131
35°	242	220	191	174	165	152
45°	194	167	135	110	101	149
55°	141	113	79	68	66	126
65°	83	62	46	43	42	82
75°	30	26	24	23	22	33
85°	5	6	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°	332.3	332.3	332.3	332.3	332.3
2.5°	331.6	332.3	329.5	332.0	332.7
5°	330.9	330.2	325.8	326.9	326.6
7.5°	328.7	327.3	320.1	319.3	317.9
10°	325.8	322.2	312.1	309.6	307.4
12.5°	321.9	316.1	303.8	298.8	296.3
15°	316.5	309.2	294.1	287.2	284.0
17.5°	310.0	299.9	284.0	274.6	271.0
20°	302.4	290.5	272.1	261.3	256.9
22.5°	294.1	280.0	259.4	247.9	243.2
25°	284.3	268.8	246.8	234.2	228.1
27.5°	274.6	257.3	233.5	219.4	212.9
30°	264.9	245.0	219.0	203.9	197.0
32.5°	254.4	232.4	205.7	189.1	181.1
35°	242.1	219.8	191.2	173.9	165.3
37.5°	230.2	206.4	177.2	157.7	149.4
40°	219.0	193.8	163.1	141.8	133.2
42.5°	206.4	180.4	149.0	126.7	116.9
45°	193.8	166.7	134.6	110.4	100.7
47.5°	180.4	153.7	119.4	95.6	89.1
50°	168.5	140.4	106.1	84.4	80.1
52.5°	154.8	127.4	92.4	75.8	72.9
55°	141.1	113.3	79.0	68.2	66.0
57.5°	127.0	100.7	68.6	61.7	59.5
60°	112.2	87.7	60.3	54.8	53.8
62.5°	97.4	74.3	53.0	49.1	47.6
65°	83.0	61.7	46.5	42.9	42.2
67.5°	68.2	50.2	40.1	37.5	37.2
70°	54.5	40.8	33.9	32.5	31.8
72.5°	41.9	32.5	28.5	27.4	27.1
75°	29.6	26.0	23.5	22.7	22.4
77.5°	19.8	19.8	18.8	18.0	18.4
80°	13.7	14.4	14.1	14.1	14.1
82.5°	9.0	9.7	10.1	10.1	10.1
85°	5.1	5.8	6.1	6.1	6.5
87.5°	1.8	2.2	2.5	2.9	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)