

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: P1061652

Luminaire Tested: S125RDR-S375D935-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S375D935-X4F0-XX-UDD-BVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

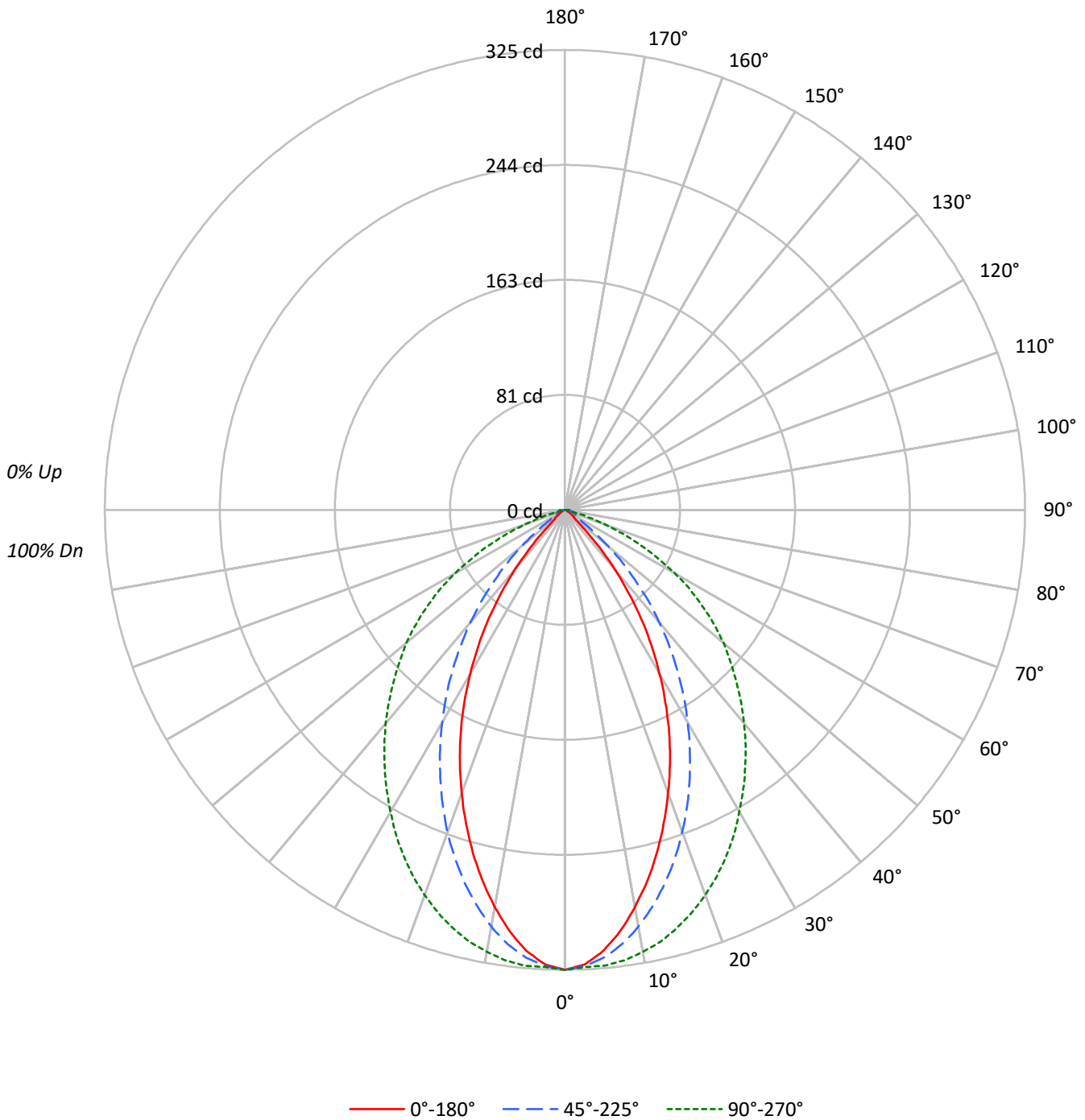
Lumens per Lamp: N/A
Luminaire Lumens: 420.6 lumens
Efficiency: N/A
Efficacy: 33.6 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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: P1061652

CATALOG NUMBER: S125RDR-S375D935-X4F0-XX-UDD-BVL-W

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			100	
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90	
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80			80	
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72			72	
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65			65	
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59			59	
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53			53	
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49			49	
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45			45	
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41			41	
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38			38	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2238	2238	2238
5°	2162	2194	2235
10°	1993	2091	2217
15°	1789	1947	2180
20°	1561	1776	2123
25°	1323	1583	2050
30°	1062	1379	1958
35°	787	1162	1867
40°	487	928	1770
45°	190	679	1664
50°	89	425	1567
55°	65	182	1422
60°	45	129	1234
65°	29	135	960
70°	28	123	604
75°	37	125	192
80°	56	143	131
85°	87	284	197

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1664 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.8	7.1
10°-20°	77.2	18.4
20°-30°	98.4	23.4
30°-40°	91.6	21.8
40°-50°	63.0	15.0
50°-60°	35.7	8.5
60°-70°	16.9	4.0
70°-80°	5.3	1.3
80°-90°	2.8	0.7
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°	205.4	48.8
0°-40°	297.0	70.6
0°-60°	395.7	94.1
0°-90°	420.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	420.6	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	273	294	306	70
25°	174	185	208	244	270	79
35°	94	107	138	186	222	58
45°	20	31	70	126	171	18
55°	5	6	15	73	118	5
65°	2	2	8	26	59	2
75°	1	3	5	5	7	1
85°	1	3	4	3	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	325.1	325.1	325.1	325.1	325.1
2.5°	321.5	324.7	322.6	322.9	323.3
5°	312.8	317.1	317.5	320.4	323.3
7.5°	300.2	305.6	309.6	316.4	321.1
10°	285.0	291.5	299.1	310.3	317.1
12.5°	268.7	276.3	286.8	302.7	312.5
15°	251.0	259.4	273.1	293.7	305.9
17.5°	232.3	241.7	258.3	282.8	298.4
20°	213.1	223.2	242.4	270.5	289.7
22.5°	194.0	204.4	225.8	257.2	280.3
25°	174.1	185.3	208.4	243.5	269.8
27.5°	153.9	165.4	191.1	229.4	258.6
30°	133.6	145.9	173.4	214.9	246.3
32.5°	113.8	126.1	156.0	200.5	234.4
35°	93.6	106.6	138.3	185.7	222.1
37.5°	73.3	87.4	121.0	170.5	209.5
40°	54.2	67.5	103.3	155.7	196.9
42.5°	36.1	49.1	87.4	140.9	183.9
45°	19.5	31.1	69.7	126.1	170.9
47.5°	10.5	16.6	54.5	111.6	158.2
50°	8.3	9.4	39.7	98.3	146.3
52.5°	6.9	7.6	26.0	85.6	132.6
55°	5.4	6.1	15.2	72.6	118.5
57.5°	4.3	5.1	9.8	60.3	104.8
60°	3.3	4.0	9.4	48.4	89.6
62.5°	2.5	2.9	8.7	37.2	73.7
65°	1.8	2.2	8.3	26.0	58.9
67.5°	1.4	1.8	7.6	16.6	44.1
70°	1.4	1.4	6.1	10.8	30.0
72.5°	1.4	2.5	5.4	7.2	18.1
75°	1.4	3.3	4.7	5.1	7.2
77.5°	1.4	3.6	4.0	4.0	4.0
80°	1.4	3.3	3.6	3.6	3.3
82.5°	1.4	2.9	3.3	3.6	2.9
85°	1.1	2.9	3.6	3.3	2.5
87.5°	1.1	2.9	3.3	2.9	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)