

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: P1061643

Luminaire Tested: S125RDR-S375D930-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061643
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-S375D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

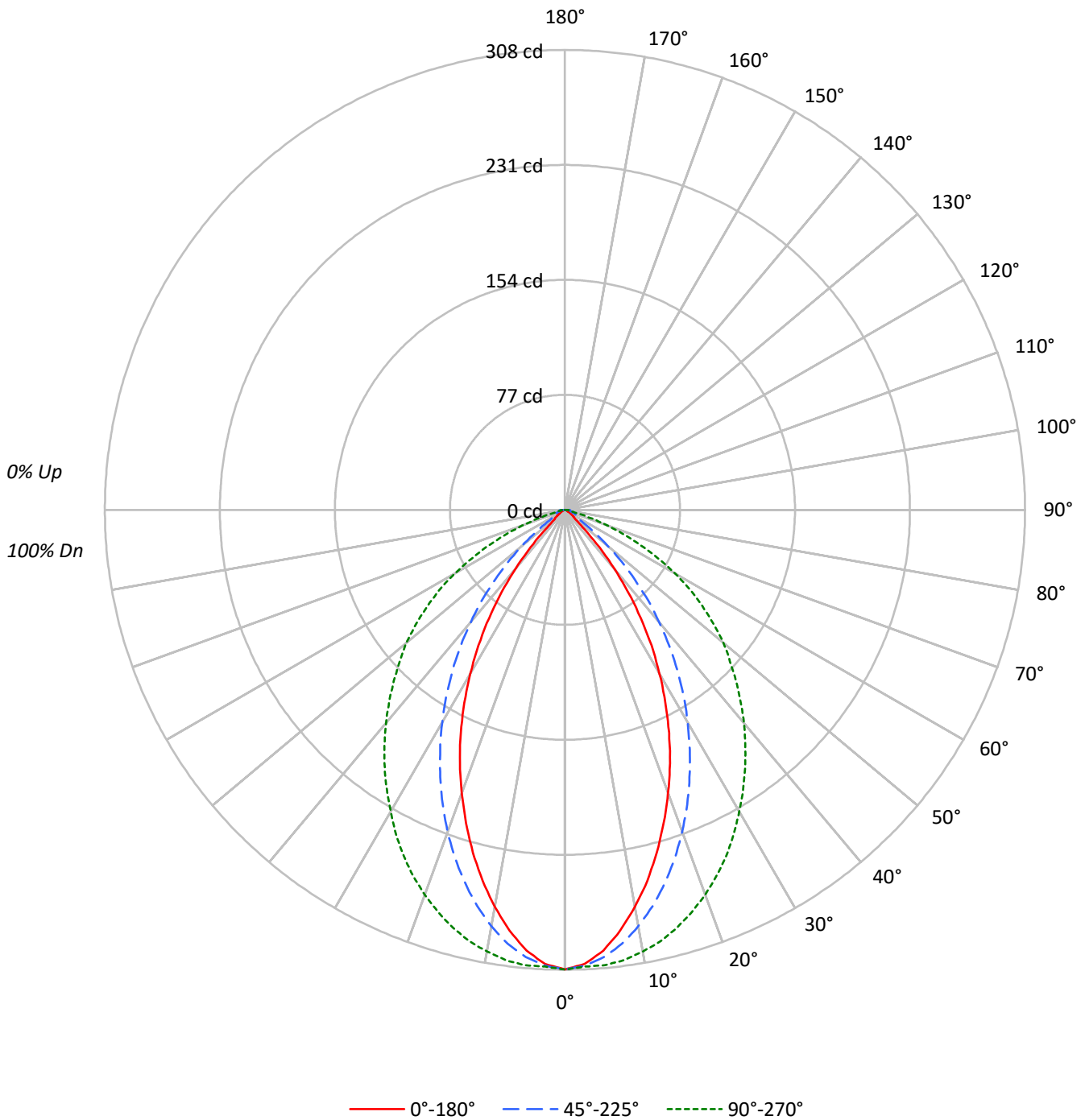
Lumens per Lamp: N/A
Luminaire Lumens: 398.3 lumens
Efficiency: N/A
Efficacy: 31.9 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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: P1061643

CATALOG NUMBER: S125RDR-S375D930-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°	2119	2119	2119
5°	2047	2078	2116
10°	1887	1980	2100
15°	1694	1843	2065
20°	1479	1682	2010
25°	1253	1500	1941
30°	1007	1305	1855
35°	745	1101	1768
40°	461	879	1675
45°	180	643	1575
50°	85	403	1484
55°	61	173	1347
60°	43	123	1168
65°	28	129	909
70°	28	117	572
75°	37	117	181
80°	56	135	123
85°	79	269	190

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1575 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.2	7.1
10°-20°	73.1	18.4
20°-30°	93.2	23.4
30°-40°	86.7	21.8
40°-50°	59.7	15.0
50°-60°	33.8	8.5
60°-70°	16.0	4.0
70°-80°	5.0	1.3
80°-90°	2.6	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°	194.5	48.8
0°-40°	281.3	70.6
0°-60°	374.7	94.1
0°-90°	398.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	398.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	308	308	308	308	308	
5°	296	300	301	303	306	27
15°	238	246	259	278	290	66
25°	165	176	197	230	256	75
35°	89	101	131	176	210	55
45°	18	29	66	119	162	17
55°	5	6	14	69	112	5
65°	2	2	8	25	56	2
75°	1	3	4	5	7	1
85°	1	3	3	3	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	307.8	307.8	307.8	307.8	307.8
2.5°	304.4	307.5	305.4	305.8	306.1
5°	296.2	300.3	300.7	303.4	306.1
7.5°	284.2	289.4	293.1	299.6	304.1
10°	269.9	276.0	283.2	293.8	300.3
12.5°	254.5	261.7	271.6	286.6	295.9
15°	237.7	245.6	258.6	278.1	289.7
17.5°	219.9	228.8	244.6	267.8	282.5
20°	201.8	211.4	229.5	256.2	274.3
22.5°	183.7	193.6	213.8	243.5	265.4
25°	164.9	175.5	197.4	230.5	255.5
27.5°	145.7	156.7	180.9	217.2	244.9
30°	126.6	138.2	164.2	203.5	233.3
32.5°	107.7	119.4	147.8	189.8	222.0
35°	88.6	100.9	131.0	175.8	210.4
37.5°	69.4	82.8	114.6	161.4	198.4
40°	51.3	64.0	97.8	147.4	186.4
42.5°	34.2	46.5	82.8	133.4	174.1
45°	18.5	29.4	66.0	119.4	161.8
47.5°	9.9	15.7	51.6	105.7	149.8
50°	7.9	8.9	37.6	93.0	138.5
52.5°	6.5	7.2	24.6	81.1	125.5
55°	5.1	5.8	14.4	68.8	112.2
57.5°	4.1	4.8	9.2	57.1	99.2
60°	3.1	3.8	8.9	45.8	84.8
62.5°	2.4	2.7	8.2	35.2	69.8
65°	1.7	2.1	7.9	24.6	55.8
67.5°	1.4	1.7	7.2	15.7	41.7
70°	1.4	1.4	5.8	10.3	28.4
72.5°	1.4	2.4	5.1	6.8	17.1
75°	1.4	3.1	4.4	4.8	6.8
77.5°	1.4	3.4	3.8	3.8	3.8
80°	1.4	3.1	3.4	3.4	3.1
82.5°	1.4	2.7	3.1	3.4	2.7
85°	1.0	2.7	3.4	3.1	2.4
87.5°	1.0	2.7	3.1	2.7	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)