

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: P1175370

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

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175370
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)
Test Lab: INNOVATION CENTER
Issue Date: 8/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S375D930-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

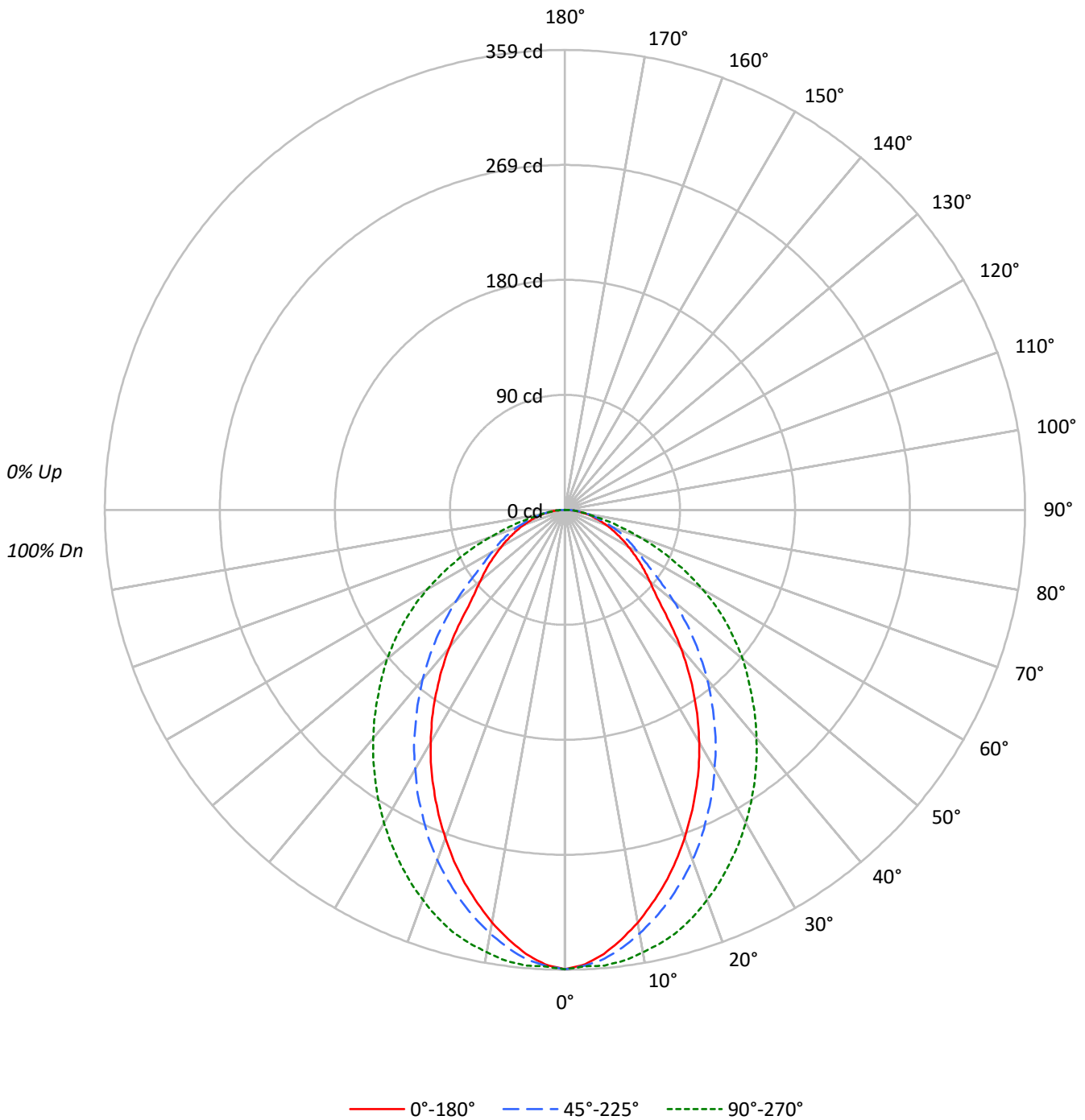
Lumens per Lamp: N/A
Luminaire Lumens: 675.5 lumens
Efficiency: N/A
Efficacy: 54.0 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1175370

CATALOG NUMBER: S125RDR-S375D930-X4F0-XX-UDD-WVL-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	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	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2469	2469	2469
5°	2405	2432	2467
10°	2288	2347	2451
15°	2150	2247	2428
20°	1998	2132	2375
25°	1836	1998	2313
30°	1665	1856	2244
35°	1473	1706	2169
40°	1264	1551	2090
45°	1037	1381	2010
50°	922	1187	1940
55°	851	994	1841
60°	784	905	1706
65°	728	854	1507
70°	680	797	1232
75°	638	737	923
80°	603	674	662
85°	553	671	553

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2010 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.2	4.9
10°-20°	89.5	13.2
20°-30°	123.1	18.2
30°-40°	130.5	19.3
40°-50°	114.3	16.9
50°-60°	87.7	13.0
60°-70°	58.4	8.6
70°-80°	29.9	4.4
80°-90°	8.9	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°	245.8	36.4
0°-40°	376.3	55.7
0°-60°	578.3	85.6
0°-90°	675.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	675.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	359	359	359	359	359	
5°	348	352	352	354	357	33
15°	302	309	315	330	341	85
25°	242	250	263	285	304	111
35°	175	184	203	233	258	109
45°	106	115	142	177	206	84
55°	71	72	83	123	153	64
65°	45	45	52	69	92	45
75°	24	26	28	29	35	26
85°	7	8	8	8	7	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	358.6	358.6	358.6	358.6	358.6
2.5°	355.2	358.9	356.1	356.4	356.7
5°	347.9	352.5	351.9	354.3	357.0
7.5°	338.2	343.0	344.6	350.6	354.9
10°	327.2	332.7	335.7	344.9	350.6
12.5°	314.7	321.1	326.0	337.9	346.4
15°	301.6	308.6	315.3	330.3	340.6
17.5°	287.6	294.6	303.5	320.5	333.0
20°	272.7	280.3	291.0	309.2	324.2
22.5°	257.5	265.4	277.6	297.7	314.7
25°	241.7	249.9	263.0	285.2	304.4
27.5°	226.2	233.8	249.0	272.7	293.7
30°	209.4	217.3	233.5	259.6	282.2
32.5°	192.7	200.6	219.2	246.5	270.3
35°	175.3	183.5	203.0	232.8	258.1
37.5°	158.0	166.5	188.1	218.8	245.6
40°	140.6	149.8	172.6	204.8	232.5
42.5°	123.0	132.7	156.8	191.1	219.8
45°	106.5	115.4	141.8	177.1	206.4
47.5°	94.7	99.8	126.0	162.8	193.6
50°	86.1	88.6	110.8	149.1	181.1
52.5°	78.5	80.1	95.9	136.4	167.4
55°	70.9	72.4	82.8	123.0	153.4
57.5°	63.6	64.5	73.1	109.6	139.4
60°	56.9	57.5	65.7	96.2	123.9
62.5°	50.8	51.1	58.7	82.5	108.4
65°	44.7	45.0	52.4	68.8	92.5
67.5°	39.3	39.3	46.3	56.3	77.3
70°	33.8	33.8	39.6	45.7	61.2
72.5°	28.9	29.5	33.5	36.8	47.8
75°	24.0	25.6	27.7	29.2	34.7
77.5°	19.5	21.3	22.2	22.8	23.1
80°	15.2	16.4	17.0	17.3	16.7
82.5°	11.3	12.2	12.5	12.5	11.6
85°	7.0	7.9	8.5	8.2	7.0
87.5°	3.3	4.6	4.9	4.3	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)