

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 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: S125RDRP-S375D930-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
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: S125RDRP-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

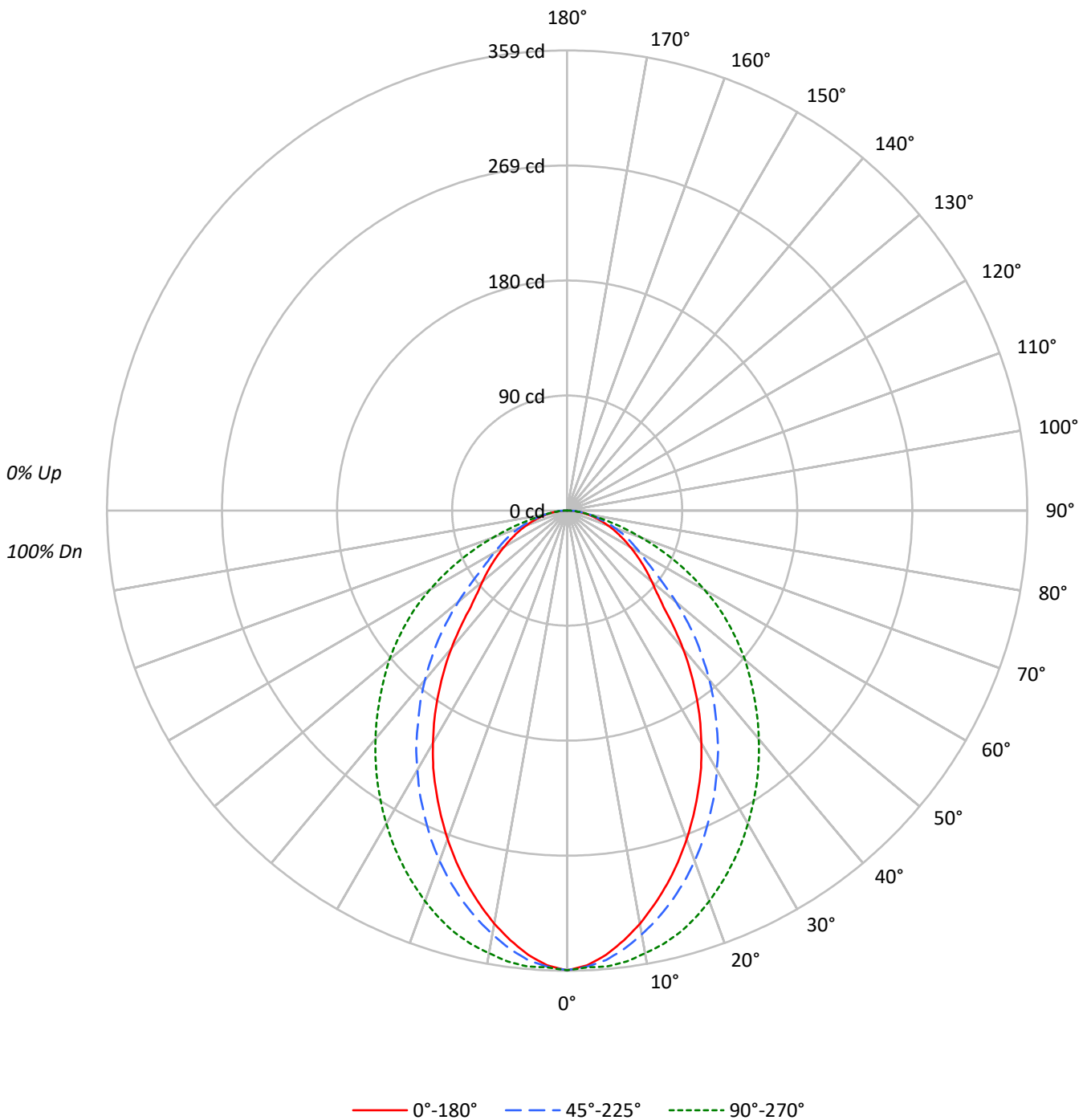
Lumens per Lamp: N/A
Luminaire Lumens: 675.5 lumens
Efficiency: N/A
Efficacy: 54.0 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
Input Voltage (V): 120
Input Current (A_{in}): 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	
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



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	9.75	11.25	10.12	11.56	11.88	13.78	15.28	14.15	15.59	15.91
	3H	11.34	12.69	11.72	13.01	13.38	15.17	16.51	15.55	16.84	17.20
	4H	11.98	13.25	12.38	13.59	13.97	15.57	16.83	15.97	17.18	17.56
	6H	12.49	13.66	12.91	14.02	14.42	15.78	16.94	16.19	17.31	17.70
	8H	12.68	13.78	13.10	14.17	14.58	15.84	16.94	16.26	17.33	17.74
	12H	12.80	13.86	13.23	14.24	14.67	15.87	16.93	16.30	17.31	17.74
4H	2H	10.52	11.78	10.92	12.13	12.51	13.91	15.17	14.31	15.52	15.90
	3H	12.31	13.35	12.72	13.75	14.16	15.48	16.53	15.89	16.93	17.33
	4H	13.08	14.02	13.51	14.43	14.87	15.99	16.93	16.42	17.35	17.79
	6H	13.71	14.53	14.17	14.98	15.44	16.32	17.13	16.77	17.58	18.04
	8H	13.94	14.71	14.41	15.15	15.62	16.41	17.18	16.88	17.62	18.09
	12H	14.12	14.80	14.60	15.28	15.75	16.49	17.17	16.97	17.65	18.12
8H	4H	13.46	14.22	13.92	14.67	15.14	16.09	16.86	16.55	17.30	17.77
	6H	14.24	14.87	14.73	15.36	15.84	16.51	17.14	17.00	17.63	18.11
	8H	14.55	15.12	15.07	15.63	16.12	16.67	17.24	17.18	17.75	18.23
	12H	14.81	15.32	15.32	15.81	16.37	16.81	17.31	17.32	17.80	18.36
12H	4H	13.50	14.18	13.98	14.66	15.13	16.09	16.77	16.57	17.25	17.72
	6H	14.31	14.88	14.82	15.39	15.88	16.52	17.09	17.03	17.60	18.09
	8H	14.69	15.20	15.20	15.69	16.25	16.73	17.23	17.24	17.72	18.29