

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: P1061445

Luminaire Tested: S125RDRP-S1090D835-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061445
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: S125RDRP-S1090D835-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, 80 CRI LEDS
Ballast/Driver: -

Summary

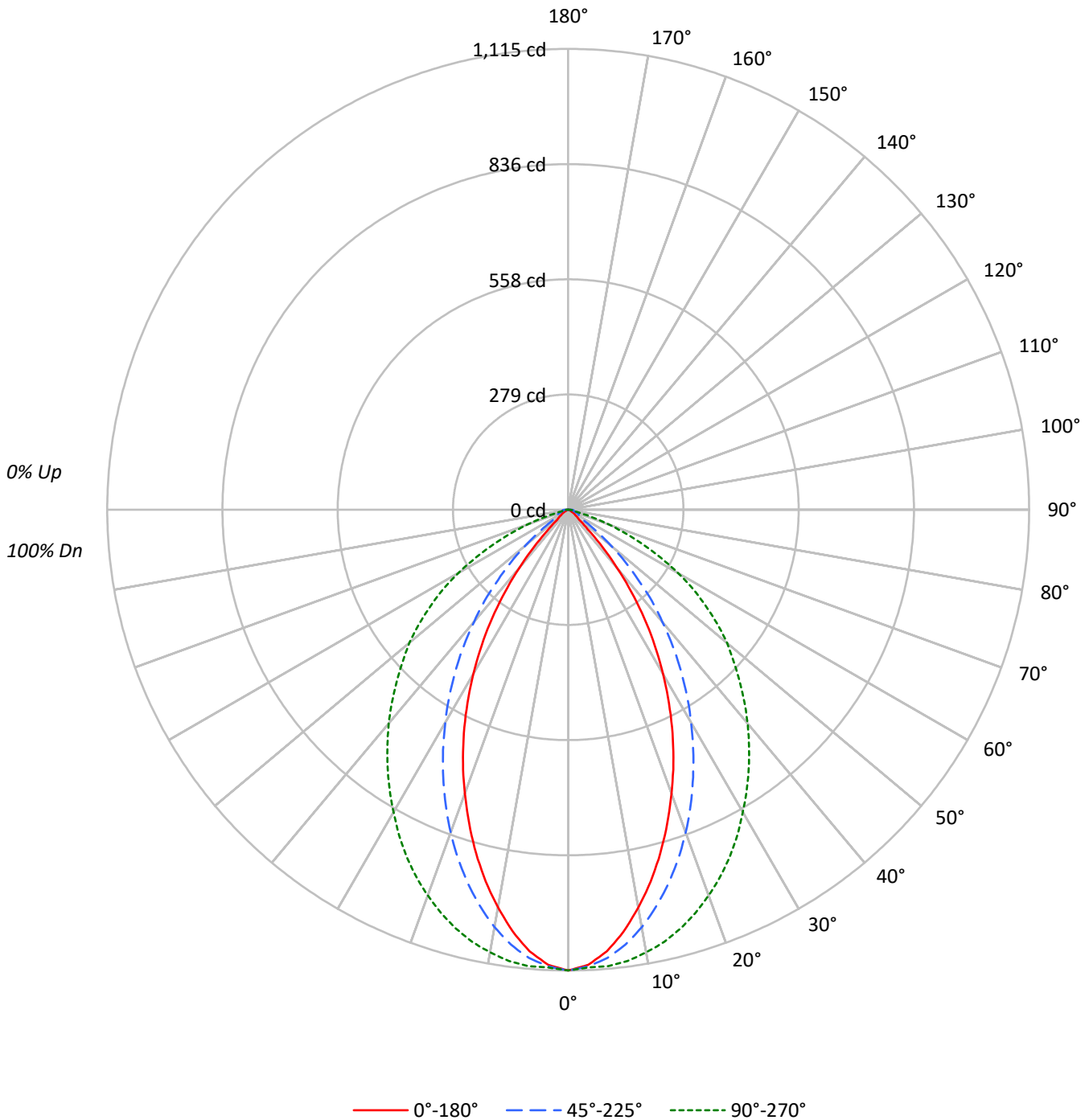
Lumens per Lamp: N/A
Luminaire Lumens: 1442.3 lumens
Efficiency: N/A
Efficacy: 41.2 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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	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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																												
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80																												
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72																												
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65																												
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59																												
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53																												
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49																												
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45																												
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41																												
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7676	7676	7676
5°	7414	7525	7662
10°	6833	7170	7603
15°	6136	6675	7478
20°	5355	6090	7279
25°	4535	5430	7030
30°	3644	4727	6716
35°	2696	3987	6403
40°	1670	3184	6068
45°	651	2328	5705
50°	305	1459	5373
55°	223	624	4877
60°	153	443	4230
65°	101	464	3289
70°	101	425	2069
75°	133	428	660
80°	198	492	440
85°	292	980	687

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5705 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	7.1
10°-20°	264.9	18.4
20°-30°	337.4	23.4
30°-40°	314.0	21.8
40°-50°	216.1	15.0
50°-60°	122.4	8.5
60°-70°	57.8	4.0
70°-80°	18.1	1.3
80°-90°	9.4	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°	704.5	48.8
0°-40°	1018.5	70.6
0°-60°	1357.0	94.1
0°-90°	1442.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1442.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1115	1115	1115	1115	1115	
5°	1073	1088	1089	1099	1109	99
15°	861	889	936	1007	1049	240
25°	597	635	715	835	925	272
35°	321	365	474	637	762	198
45°	67	106	239	432	586	63
55°	19	21	52	249	406	17
65°	6	7	28	89	202	7
75°	5	11	16	17	25	5
85°	4	10	12	11	9	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1114.8	1114.8	1114.8	1114.8	1114.8
2.5°	1102.4	1113.5	1106.1	1107.3	1108.6
5°	1072.7	1087.5	1088.8	1098.7	1108.6
7.5°	1029.3	1047.9	1061.5	1085.0	1101.1
10°	977.3	999.6	1025.6	1064.0	1087.5
12.5°	921.5	947.5	983.5	1038.0	1071.4
15°	860.8	889.3	936.4	1007.0	1049.1
17.5°	796.4	828.6	885.6	969.8	1023.1
20°	730.8	765.5	831.1	927.7	993.4
22.5°	665.1	701.1	774.1	881.9	961.2
25°	597.0	635.4	714.7	834.8	925.3
27.5°	527.7	567.3	655.2	786.5	886.9
30°	458.3	500.4	594.5	737.0	844.7
32.5°	390.2	432.3	535.1	687.4	803.9
35°	320.8	365.4	474.4	636.7	761.8
37.5°	251.4	299.7	414.9	584.6	718.4
40°	185.8	231.6	354.2	533.8	675.1
42.5°	123.9	168.5	299.7	483.1	630.5
45°	66.9	106.5	239.1	432.3	585.9
47.5°	35.9	57.0	187.0	382.7	542.5
50°	28.5	32.2	136.2	336.9	501.6
52.5°	23.5	26.0	89.2	293.6	454.6
55°	18.6	21.1	52.0	249.0	406.3
57.5°	14.9	17.3	33.4	206.9	359.2
60°	11.1	13.6	32.2	166.0	307.2
62.5°	8.7	9.9	29.7	127.6	252.7
65°	6.2	7.4	28.5	89.2	201.9
67.5°	5.0	6.2	26.0	57.0	151.1
70°	5.0	5.0	21.1	37.2	102.8
72.5°	5.0	8.7	18.6	24.8	61.9
75°	5.0	11.1	16.1	17.3	24.8
77.5°	5.0	12.4	13.6	13.6	13.6
80°	5.0	11.1	12.4	12.4	11.1
82.5°	5.0	9.9	11.1	12.4	9.9
85°	3.7	9.9	12.4	11.1	8.7
87.5°	3.7	9.9	11.1	9.9	6.2
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	0.00	0.00	0.00	0.00	0.00	16.33	17.62	16.69	17.93	18.25
	3H	0.00	0.00	0.00	0.00	0.33	17.05	18.19	17.43	18.52	18.88
	4H	0.00	0.47	0.00	0.82	1.20	17.07	18.13	17.47	18.48	18.87
	6H	0.67	1.65	1.09	2.02	2.41	17.02	18.00	17.44	18.37	18.76
	8H	1.32	2.24	1.75	2.63	3.04	17.00	17.92	17.43	18.31	18.72
	12H	1.91	2.79	2.34	3.17	3.60	16.98	17.86	17.41	18.25	18.68
4H	2H	0.83	1.89	1.24	2.25	2.63	16.12	17.18	16.52	17.53	17.92
	3H	1.65	2.52	2.07	2.92	3.33	16.87	17.74	17.29	18.15	18.55
	4H	2.66	3.43	3.09	3.85	4.29	16.90	17.68	17.34	18.10	18.54
	6H	3.94	4.61	4.40	5.05	5.52	16.88	17.55	17.35	18.00	18.46
	8H	4.52	5.15	4.99	5.59	6.06	16.87	17.49	17.34	17.94	18.41
	12H	5.08	5.63	5.57	6.12	6.59	16.87	17.42	17.36	17.91	18.38
8H	4H	4.07	4.69	4.54	5.14	5.61	16.79	17.41	17.26	17.86	18.33
	6H	5.63	6.14	6.13	6.64	7.12	16.78	17.28	17.28	17.78	18.26
	8H	6.43	6.88	6.95	7.40	7.89	16.79	17.24	17.31	17.76	18.25
	12H	7.27	7.67	7.78	8.16	8.74	16.85	17.25	17.36	17.75	18.32
12H	4H	4.29	4.84	4.78	5.33	5.80	16.74	17.29	17.23	17.78	18.25
	6H	6.00	6.46	6.52	6.97	7.47	16.73	17.19	17.25	17.70	18.19
	8H	6.99	7.40	7.51	7.89	8.46	16.78	17.18	17.29	17.68	18.25