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

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: P1056390

Luminaire Tested: S125R3DR-S1270D835-X4F0-XX-UDD-FLL-W

Issue Date: 7/25/2025

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1056390
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-10)
Test Lab:	INNOVATION CENTER
Issue Date:	7/25/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	NEO-RAY
Catalog Number:	S125R3DR-S1270D835-X4F0-XX-UDD-FLL-W
Description:	DEFINE 5, WHITE 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS CORE LIGHT ENGINE
Light Source:	3500K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4292.9 lumens
Efficiency:	N/A
Efficacy:	102.5 lumens/watt
Spacing Criteria (0/90/45):	1.2 / 1.01 / 1.17
Luminous Opening:	Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type:	Direct

Input Watts (W):	41.9
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

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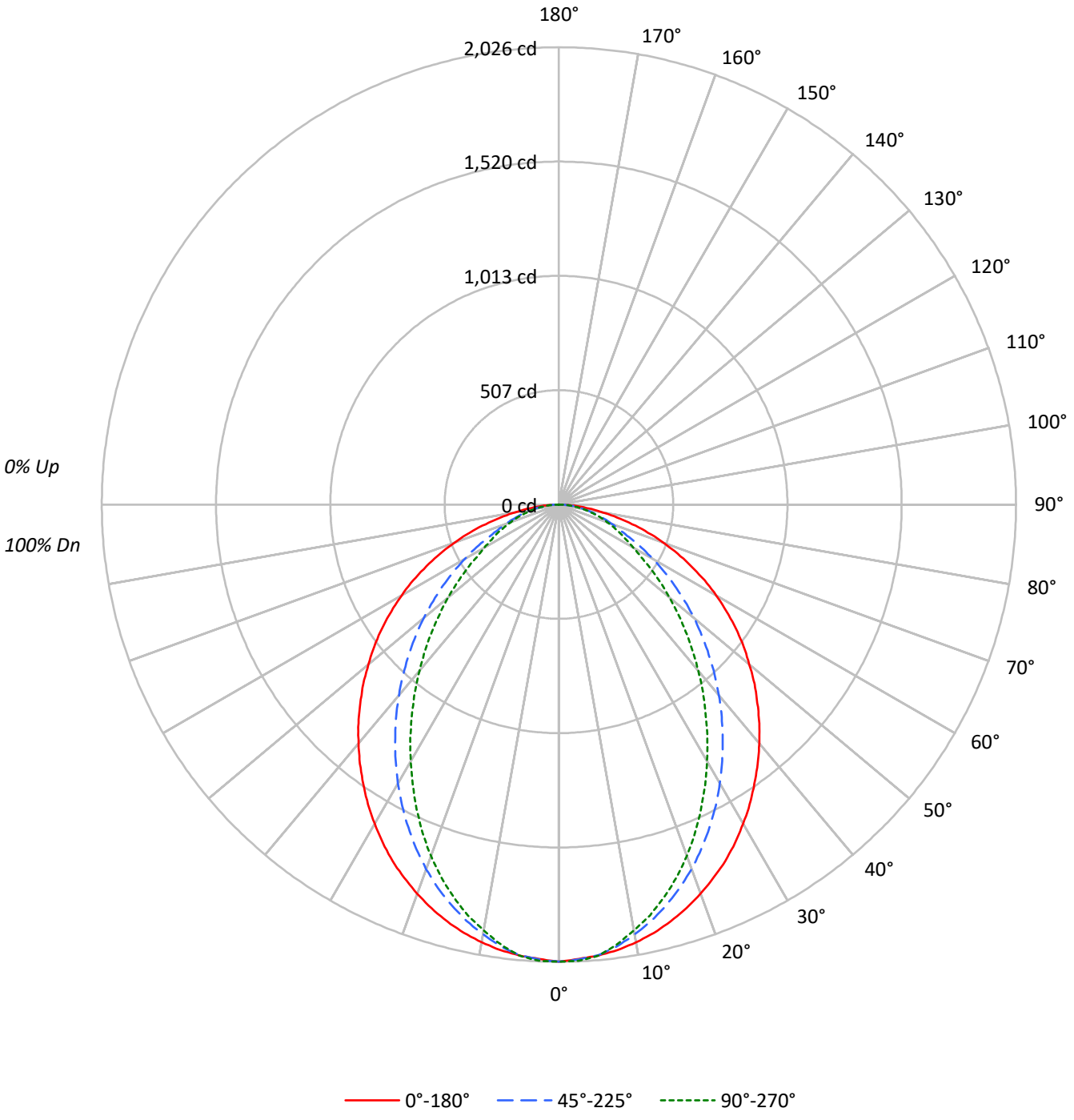
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38
8	63	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34
9	59	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	30	42	35	30	41	35	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14319	14319	14319
5°	14234	14223	14234
10°	14139	13879	13749
15°	13996	13455	13179
20°	13808	12934	12469
25°	13599	12316	11623
30°	13333	11646	10723
35°	13042	10920	9787
40°	12749	10174	8866
45°	12439	9394	7946
50°	12109	8592	7033
55°	11804	7714	6116
60°	11387	6781	5374
65°	10823	5753	4995
70°	10163	5143	4675
75°	9186	4736	4408
80°	7983	4299	4112
85°	6237	3796	3796

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 12439 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.5	4.4
10°-20°	520.4	12.1
20°-30°	735.0	17.1
30°-40°	809.2	18.8
40°-50°	754.8	17.6
50°-60°	602.6	14.0
60°-70°	405.5	9.4
70°-80°	216.0	5.0
80°-90°	60.0	1.4
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°	1444.9	33.7
0°-40°	2254.1	52.5
0°-60°	3611.4	84.1
0°-90°	4292.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4292.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2026	2026	2026	2026	2026	
5°	2006	2022	2004	1998	2006	190
15°	1912	1902	1838	1807	1801	539
25°	1743	1691	1579	1510	1490	802
35°	1511	1422	1265	1166	1134	946
45°	1244	1127	940	825	795	961
55°	958	813	626	526	496	855
65°	647	505	344	305	299	642
75°	336	223	173	163	161	358
85°	77	53	47	48	47	92
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2025.5	*2025.5*	2025.5	2025.5	2025.5
2.5°	*2014.9*	*2031.5*	*2017.9*	*2020.9*	*2023.9*
5°	2005.8	*2022.4*	2004.3	1998.3	2005.8
7.5°	1990.8	*2004.3*	1974.2	1960.6	1966.6
10°	1969.6	*1978.7*	1933.5	1915.4	1915.4
12.5°	1944.0	*1944.0*	1889.7	1864.1	1864.1
15°	1912.3	*1901.8*	1838.4	1806.8	1800.7
17.5°	1876.1	*1856.5*	1781.1	1740.4	1732.9
20°	1835.4	*1803.8*	1719.3	1666.5	1657.5
22.5°	1790.2	*1749.5*	1651.4	1586.6	1576.0
25°	1743.4	*1690.6*	1579.0	1509.7	1490.1
27.5°	1690.6	*1627.3*	1505.1	1426.7	1402.6
30°	1633.3	*1560.9*	1426.7	1339.2	1313.6
32.5°	1574.5	*1493.1*	1346.8	1253.3	1224.6
35°	1511.2	*1422.2*	1265.3	1165.8	1134.1
37.5°	1447.8	*1351.3*	1185.4	1081.3	1048.2
40°	1381.5	*1275.9*	1102.5	995.4	960.7
42.5°	1315.1	*1202.0*	1021.0	912.4	876.2
45°	1244.2	*1126.6*	939.6	825.0	794.8
47.5°	1176.4	*1049.7*	859.6	748.0	714.9
50°	1101.0	*969.7*	781.2	669.6	639.5
52.5°	1031.6	*891.3*	702.8	598.7	567.1
55°	957.7	*812.9*	625.9	526.3	496.2
57.5°	880.8	*734.5*	552.0	458.5	429.8
60°	805.4	*656.0*	479.6	393.6	380.1
62.5°	728.4	*582.1*	411.7	345.4	336.3
65°	647.0	*505.2*	343.9	304.6	298.6
67.5°	570.1	*431.3*	289.6	266.9	260.9
70°	491.7	*357.4*	248.8	229.2	226.2
72.5°	414.7	*286.5*	209.6	196.1	193.0
75°	336.3	*223.2*	173.4	162.9	161.4
77.5°	263.9	*167.4*	137.2	132.7	129.7
80°	196.1	*125.2*	105.6	102.6	101.0
82.5°	134.2	*86.0*	75.4	75.4	72.4
85°	76.9	*52.8*	46.8	48.3	46.8
87.5°	28.7	*22.6*	21.1	22.6	22.6
90°	0.0	*0.0*	0.0	0.0	0.0

(END OF REPORT)