

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: P1175358

Luminaire Tested: S125RDRP-S1270D840-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175358
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-S1270D840-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

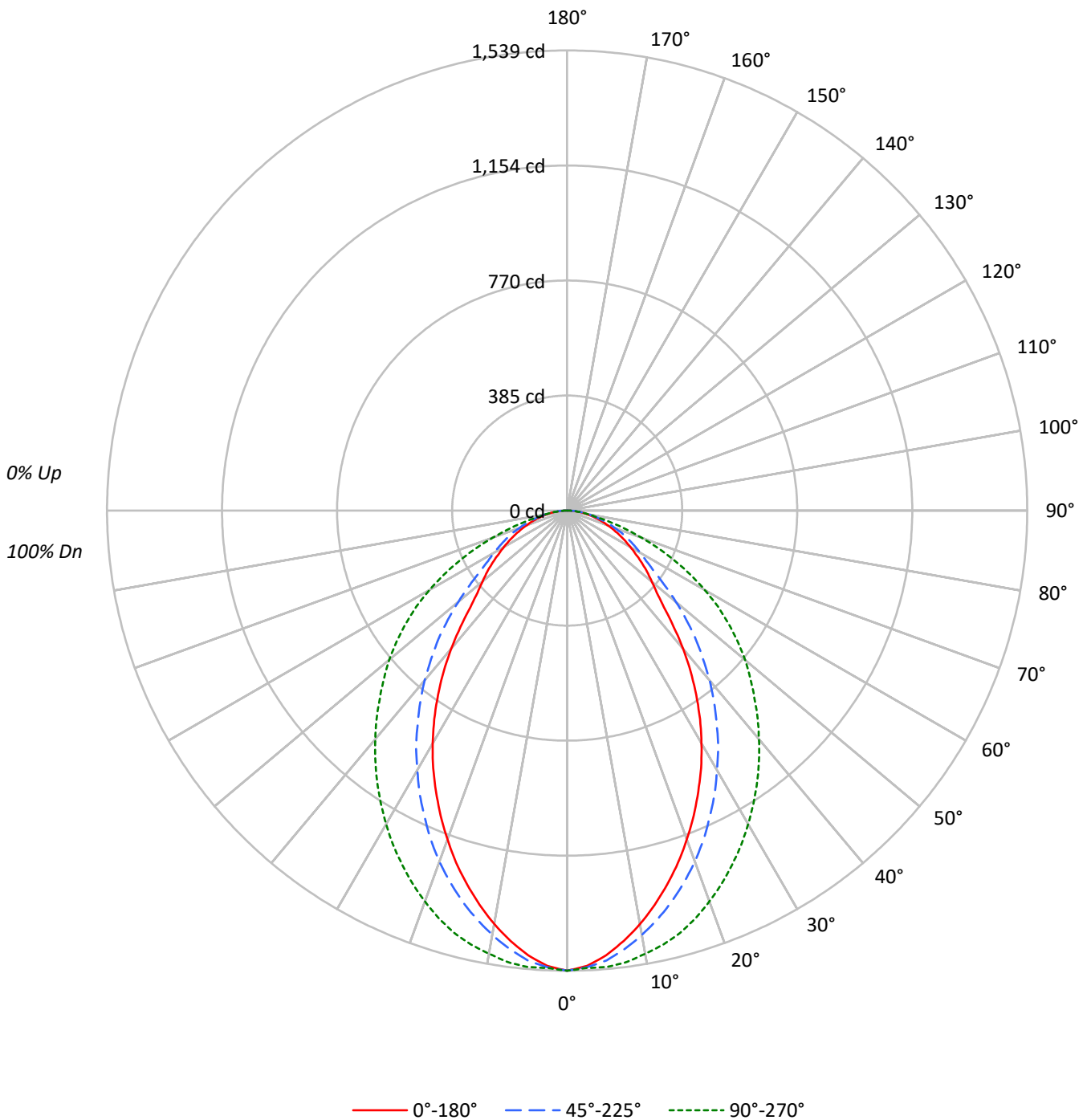
Lumens per Lamp: N/A
Luminaire Lumens: 2899.1 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10596	10596	10596
5°	10320	10437	10591
10°	9818	10074	10521
15°	9228	9647	10420
20°	8576	9151	10194
25°	7880	8575	9924
30°	7146	7966	9628
35°	6325	7324	9311
40°	5424	6657	8970
45°	4452	5928	8624
50°	3960	5093	8326
55°	3654	4265	7903
60°	3364	3886	7322
65°	3128	3661	6469
70°	2919	3418	5286
75°	2745	3163	3961
80°	2589	2902	2847
85°	2370	2891	2370

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8624 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.5	4.9
10°-20°	384.0	13.2
20°-30°	528.3	18.2
30°-40°	560.3	19.3
40°-50°	490.4	16.9
50°-60°	376.3	13.0
60°-70°	250.7	8.6
70°-80°	128.5	4.4
80°-90°	38.2	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°	1054.8	36.4
0°-40°	1615.1	55.7
0°-60°	2481.8	85.6
0°-90°	2899.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2899.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1539	1539	1539	1539	1539	
5°	1493	1513	1510	1521	1532	140
15°	1295	1325	1353	1417	1462	363
25°	1037	1072	1129	1224	1306	476
35°	752	788	871	999	1108	469
45°	457	495	609	760	886	361
55°	304	311	355	528	658	273
65°	192	193	225	295	397	191
75°	103	110	119	125	149	110
85°	30	34	37	35	30	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1538.9	1538.9	1538.9	1538.9	1538.9
2.5°	1524.5	1540.2	1528.4	1529.7	1531.0
5°	1493.2	1512.7	1510.1	1520.6	1532.3
7.5°	1451.4	1472.3	1478.8	1504.9	1523.2
10°	1404.3	1427.8	1440.9	1480.1	1504.9
12.5°	1350.8	1378.2	1399.1	1450.0	1486.6
15°	1294.6	1324.6	1353.4	1417.4	1461.8
17.5°	1234.5	1264.5	1302.4	1375.6	1429.1
20°	1170.5	1203.1	1248.9	1327.2	1391.3
22.5°	1105.2	1139.1	1191.4	1277.6	1350.8
25°	1037.2	1072.5	1128.7	1224.0	1306.3
27.5°	970.6	1003.3	1068.6	1170.5	1260.6
30°	898.8	932.7	1002.0	1114.3	1211.0
32.5°	826.9	860.9	940.6	1058.1	1160.0
35°	752.5	787.7	871.3	999.4	1107.8
37.5°	678.0	714.6	807.3	939.3	1054.2
40°	603.5	642.7	740.7	879.2	998.0
42.5°	527.8	569.6	672.8	820.4	943.2
45°	457.2	495.1	608.8	760.3	885.7
47.5°	406.3	428.5	540.8	698.9	830.8
50°	369.7	380.1	475.5	640.1	777.3
52.5°	337.0	343.6	411.5	585.2	718.5
55°	304.4	310.9	355.3	527.8	658.4
57.5°	273.0	276.9	313.5	470.3	598.3
60°	244.3	246.9	282.2	412.8	531.7
62.5°	218.2	219.5	252.1	354.0	465.1
65°	192.0	193.3	224.7	295.2	397.1
67.5°	168.5	168.5	198.6	241.7	331.8
70°	145.0	145.0	169.8	196.0	262.6
72.5°	124.1	126.7	143.7	158.1	205.1
75°	103.2	109.7	118.9	125.4	148.9
77.5°	83.6	91.4	95.4	98.0	99.3
80°	65.3	70.5	73.2	74.5	71.8
82.5°	48.3	52.3	53.6	53.6	49.6
85°	30.0	34.0	36.6	35.3	30.0
87.5°	14.4	19.6	20.9	18.3	14.4
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	14.82	16.31	15.18	16.63	16.94	18.84	20.34	19.21	20.65	20.97
	3H	16.40	17.75	16.78	18.07	18.44	20.23	21.57	20.61	21.90	22.26
	4H	17.05	18.31	17.45	18.66	19.03	20.63	21.90	21.03	22.24	22.62
	6H	17.55	18.72	17.97	19.09	19.48	20.84	22.00	21.25	22.37	22.76
	8H	17.74	18.84	18.16	19.23	19.64	20.90	22.01	21.32	22.40	22.80
	12H	17.86	18.92	18.29	19.30	19.73	20.93	21.99	21.36	22.37	22.80
4H	2H	15.58	16.85	15.98	17.19	17.57	18.97	20.23	19.37	20.58	20.96
	3H	17.37	18.41	17.78	18.81	19.22	20.54	21.59	20.95	21.99	22.39
	4H	18.14	19.08	18.57	19.49	19.93	21.05	21.99	21.48	22.41	22.85
	6H	18.77	19.59	19.23	20.04	20.50	21.38	22.20	21.84	22.64	23.10
	8H	19.00	19.77	19.47	20.21	20.68	21.48	22.24	21.94	22.69	23.15
	12H	19.18	19.86	19.66	20.34	20.81	21.55	22.23	22.03	22.71	23.18
8H	4H	18.52	19.28	18.98	19.73	20.20	21.15	21.92	21.62	22.36	22.83
	6H	19.30	19.93	19.79	20.42	20.90	21.57	22.20	22.07	22.69	23.17
	8H	19.61	20.18	20.13	20.69	21.18	21.73	22.30	22.24	22.81	23.30
	12H	19.87	20.38	20.38	20.87	21.43	21.87	22.37	22.38	22.86	23.43
12H	4H	18.56	19.24	19.04	19.72	20.19	21.15	21.83	21.63	22.31	22.78
	6H	19.37	19.94	19.88	20.45	20.94	21.58	22.15	22.10	22.66	23.15
	8H	19.75	20.26	20.26	20.75	21.31	21.79	22.29	22.30	22.79	23.35