

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: P1175358

Luminaire Tested: S125RDR-S1270D840-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
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: S125RDR-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

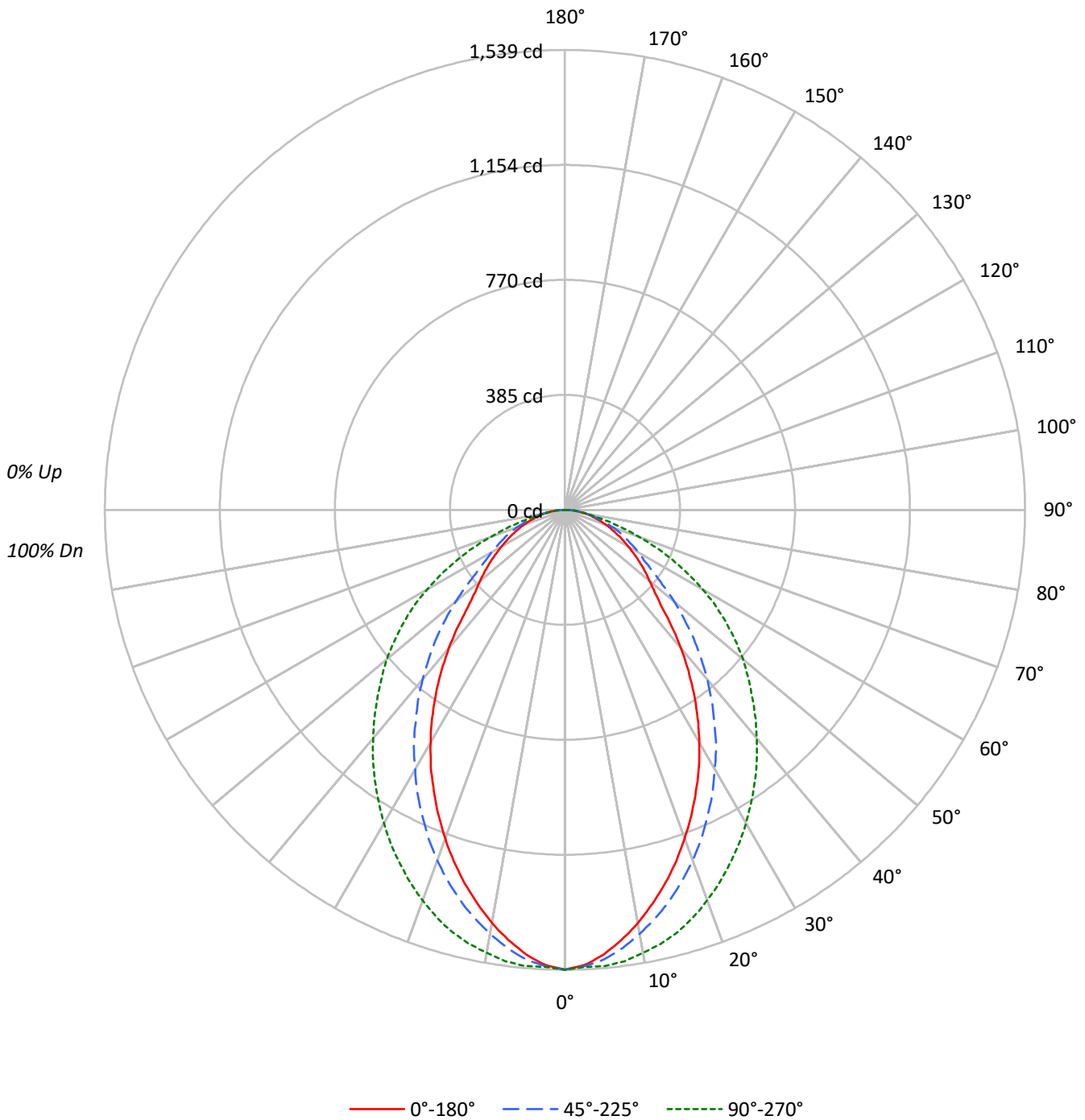
Lumens per Lamp: N/A
Luminaire Lumens: 2899.1 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (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	
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°	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

(END OF REPORT)