

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: P1056386

Luminaire Tested: S125R3DR-S1270D830-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-12)
Test Lab: INNOVATION CENTER
Issue Date: 7/25/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125R3DR-S1270D830-X4F0-XX-UDD-FLL-S
Description: DEFINE 5, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

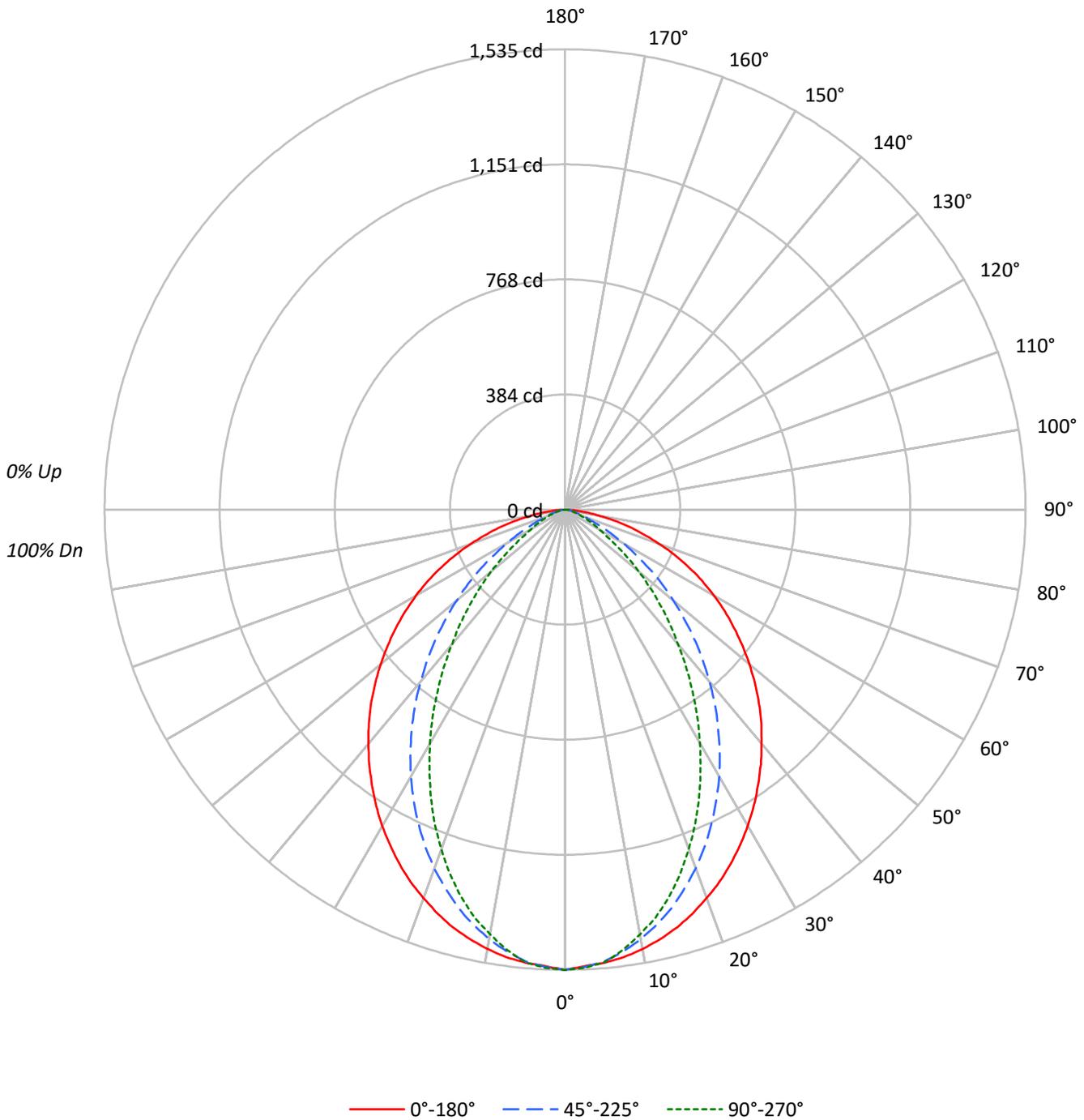
Lumens per Lamp: N/A
Luminaire Lumens: 2774.8 lumens
Efficiency: N/A
Efficacy: 66.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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	
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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88				
2	102	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67				
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59				
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52				
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47				
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	54	48	44	42				
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38				
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36	35				
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10853	10853	10853
5°	10763	10733	10753
10°	10684	10439	10327
15°	10559	10060	9790
20°	10374	9582	9068
25°	10178	9015	8249
30°	9944	8389	7345
35°	9679	7680	6391
40°	9406	6900	5405
45°	9138	6083	4477
50°	8817	5175	3517
55°	8480	4205	2557
60°	8100	3136	1830
65°	7609	2069	1427
70°	6875	1441	998
75°	5979	931	776
80°	4686	696	635
85°	2425	576	462

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9138 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.0	5.2
10°-20°	388.8	14.0
20°-30°	537.6	19.4
30°-40°	569.5	20.5
40°-50°	497.1	17.9
50°-60°	353.6	12.7
60°-70°	196.6	7.1
70°-80°	75.6	2.7
80°-90°	13.1	0.5
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°	1069.3	38.5
0°-40°	1638.8	59.1
0°-60°	2489.5	89.7
0°-90°	2774.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2774.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1535	1535	1535	1535	1535	
5°	1517	1528	1512	1508	1515	144
15°	1443	1430	1375	1345	1338	406
25°	1305	1261	1156	1085	1058	601
35°	1122	1045	890	782	741	702
45°	914	805	608	486	448	705
55°	688	552	341	236	208	615
65°	455	298	124	91	85	449
75°	219	85	34	28	28	232
85°	30	8	7	6	6	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1535.2	1535.2	1535.2	1535.2	1535.2
2.5°	1523.8	1539.5	1526.7	1528.1	1529.5
5°	1516.7	1528.1	1512.5	1508.2	1515.3
7.5°	1505.4	1513.9	1486.9	1476.9	1481.2
10°	1488.3	1491.2	1454.2	1440.0	1438.6
12.5°	1467.0	1462.7	1417.2	1394.5	1393.1
15°	1442.8	1430.0	1374.6	1344.7	1337.6
17.5°	1413.0	1393.1	1324.8	1286.5	1275.1
20°	1378.9	1351.8	1273.7	1223.9	1205.4
22.5°	1344.7	1307.8	1216.8	1154.3	1134.4
25°	1304.9	1260.9	1155.7	1084.6	1057.6
27.5°	1262.3	1209.7	1093.1	1010.7	978.0
30°	1218.2	1157.1	1027.7	935.3	899.8
32.5°	1171.3	1101.7	959.5	858.6	821.6
35°	1121.6	1044.8	889.9	781.8	740.6
37.5°	1071.8	986.5	821.6	706.5	663.8
40°	1019.2	926.8	747.7	629.7	585.7
42.5°	968.0	865.7	678.1	557.2	517.4
45°	914.0	804.6	608.4	486.2	447.8
47.5°	858.6	740.6	538.7	419.3	381.0
50°	801.7	678.1	470.5	354.0	319.8
52.5°	744.9	615.5	406.5	291.4	261.6
55°	688.0	551.5	341.2	236.0	207.5
57.5°	631.1	489.0	280.0	184.8	159.2
60°	572.9	425.0	221.8	136.5	129.4
62.5°	514.6	362.5	172.0	112.3	106.6
65°	454.9	298.5	123.7	91.0	85.3
67.5°	395.2	240.2	89.6	69.7	65.4
70°	332.6	183.4	69.7	52.6	48.3
72.5°	272.9	132.2	49.8	38.4	37.0
75°	218.9	85.3	34.1	28.4	28.4
77.5°	164.9	51.2	24.2	21.3	21.3
80°	115.1	29.9	17.1	15.6	15.6
82.5°	69.7	15.6	11.4	10.0	10.0
85°	29.9	8.5	7.1	5.7	5.7
87.5°	5.7	2.8	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)