

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: P1056387

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

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056387
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-S1270D830-X4F0-XX-UDD-FLL-W
Description: DEFINE 5, WHITE 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

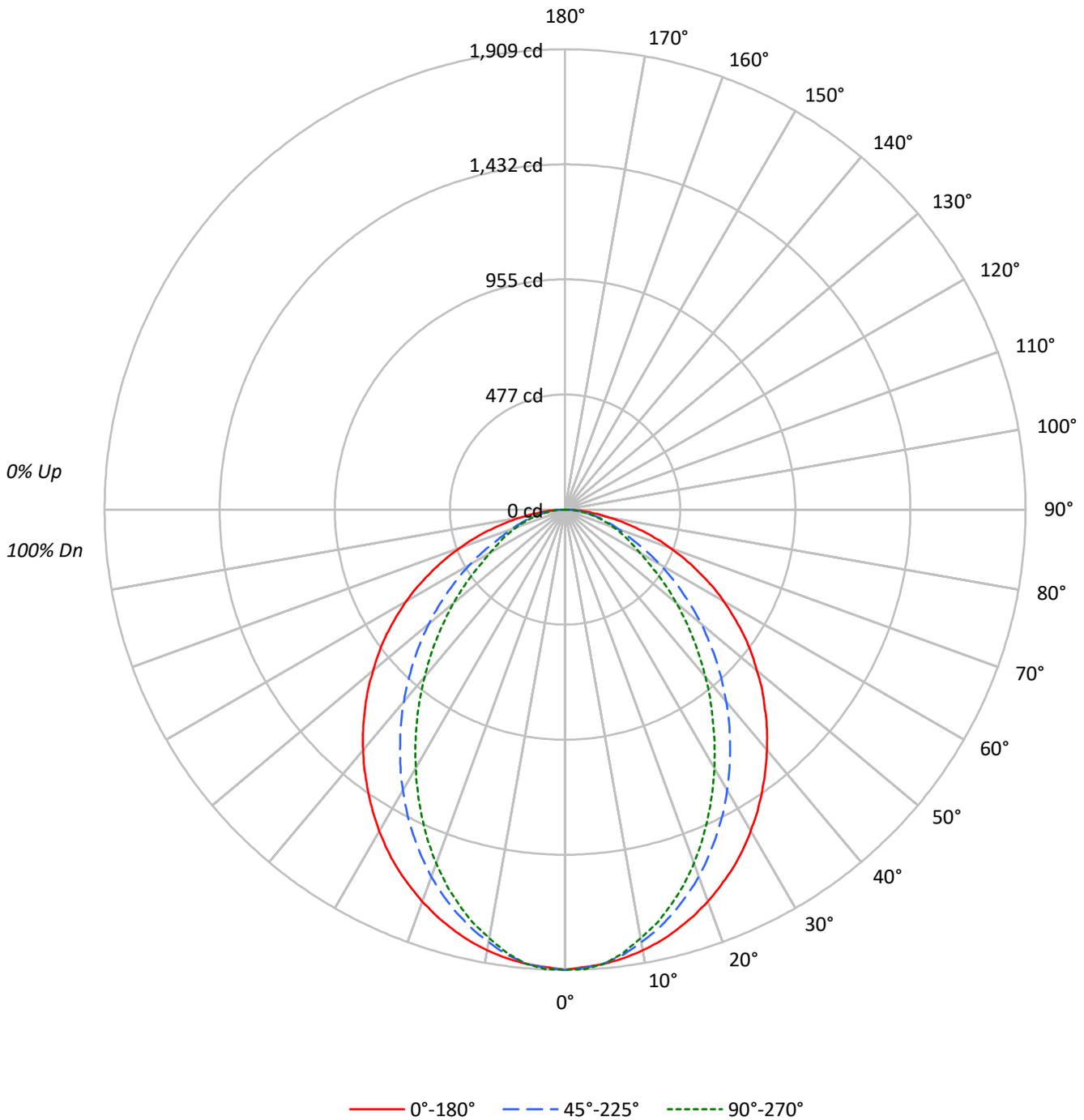
Lumens per Lamp: N/A
Luminaire Lumens: 4046.2 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.01 / 1.17
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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	
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°	13496	13496	13496
5°	13416	13406	13416
10°	13327	13082	12959
15°	13192	12682	12422
20°	13015	12191	11752
25°	12818	11609	10955
30°	12567	10977	10107
35°	12292	10292	9226
40°	12016	9589	8356
45°	11724	8854	7489
50°	11413	8098	6628
55°	11126	7271	5764
60°	10733	6391	5064
65°	10200	5421	4709
70°	9578	4847	4407
75°	8658	4466	4154
80°	7523	4051	3876
85°	5881	3577	3577

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11724 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.6	4.4
10°-20°	490.5	12.1
20°-30°	692.8	17.1
30°-40°	762.7	18.8
40°-50°	711.4	17.6
50°-60°	567.9	14.0
60°-70°	382.2	9.4
70°-80°	203.6	5.0
80°-90°	56.6	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°	1361.9	33.7
0°-40°	2124.6	52.5
0°-60°	3403.9	84.1
0°-90°	4046.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4046.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1909	1909	1909	1909	1909	
5°	1891	1906	1889	1884	1891	179
15°	1802	1792	1733	1703	1697	508
25°	1643	1594	1488	1423	1404	756
35°	1424	1340	1193	1099	1069	891
45°	1173	1062	886	778	749	905
55°	903	766	590	496	468	806
65°	610	476	324	287	282	605
75°	317	210	164	154	152	338
85°	72	50	44	46	44	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1909.1	1909.1	1909.1	1909.1	1909.1
2.5°	1899.1	1914.8	1902.0	1904.8	1907.7
5°	1890.6	1906.2	1889.2	1883.5	1890.6
7.5°	1876.4	1889.2	1860.7	1847.9	1853.6
10°	1856.5	1865.0	1822.4	1805.3	1805.3
12.5°	1832.3	1832.3	1781.1	1757.0	1757.0
15°	1802.5	1792.5	1732.8	1703.0	1697.3
17.5°	1768.3	1749.9	1678.8	1640.4	1633.3
20°	1730.0	1700.1	1620.5	1570.8	1562.2
22.5°	1687.3	1648.9	1556.5	1495.4	1485.5
25°	1643.3	1593.5	1488.3	1422.9	1404.4
27.5°	1593.5	1533.8	1418.7	1344.7	1322.0
30°	1539.5	1471.3	1344.7	1262.3	1238.1
32.5°	1484.0	1407.3	1269.4	1181.3	1154.3
35°	1424.3	1340.5	1192.6	1098.8	1069.0
37.5°	1364.6	1273.7	1117.3	1019.2	987.9
40°	1302.1	1202.6	1039.1	938.2	905.5
42.5°	1239.5	1132.9	962.4	860.0	825.9
45°	1172.7	1061.9	885.6	777.6	749.1
47.5°	1108.8	989.4	810.3	705.1	673.8
50°	1037.7	914.0	736.3	631.1	602.7
52.5°	972.3	840.1	662.4	564.3	534.5
55°	902.7	766.2	589.9	496.1	467.7
57.5°	830.2	692.3	520.3	432.1	405.1
60°	759.1	618.4	452.0	371.0	358.2
62.5°	686.6	548.7	388.1	325.5	317.0
65°	609.8	476.2	324.1	287.1	281.5
67.5°	537.3	406.5	272.9	251.6	245.9
70°	463.4	336.9	234.5	216.1	213.2
72.5°	390.9	270.1	197.6	184.8	182.0
75°	317.0	210.4	163.5	153.5	152.1
77.5°	248.8	157.8	129.4	125.1	122.2
80°	184.8	118.0	99.5	96.7	95.2
82.5°	126.5	81.0	71.1	71.1	68.2
85°	72.5	49.8	44.1	45.5	44.1
87.5°	27.0	21.3	19.9	21.3	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)