

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: P1056414

Luminaire Tested: S125R3DR-S375D830-X4F0-XX-UDD-FLL-W

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056414
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-S375D830-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

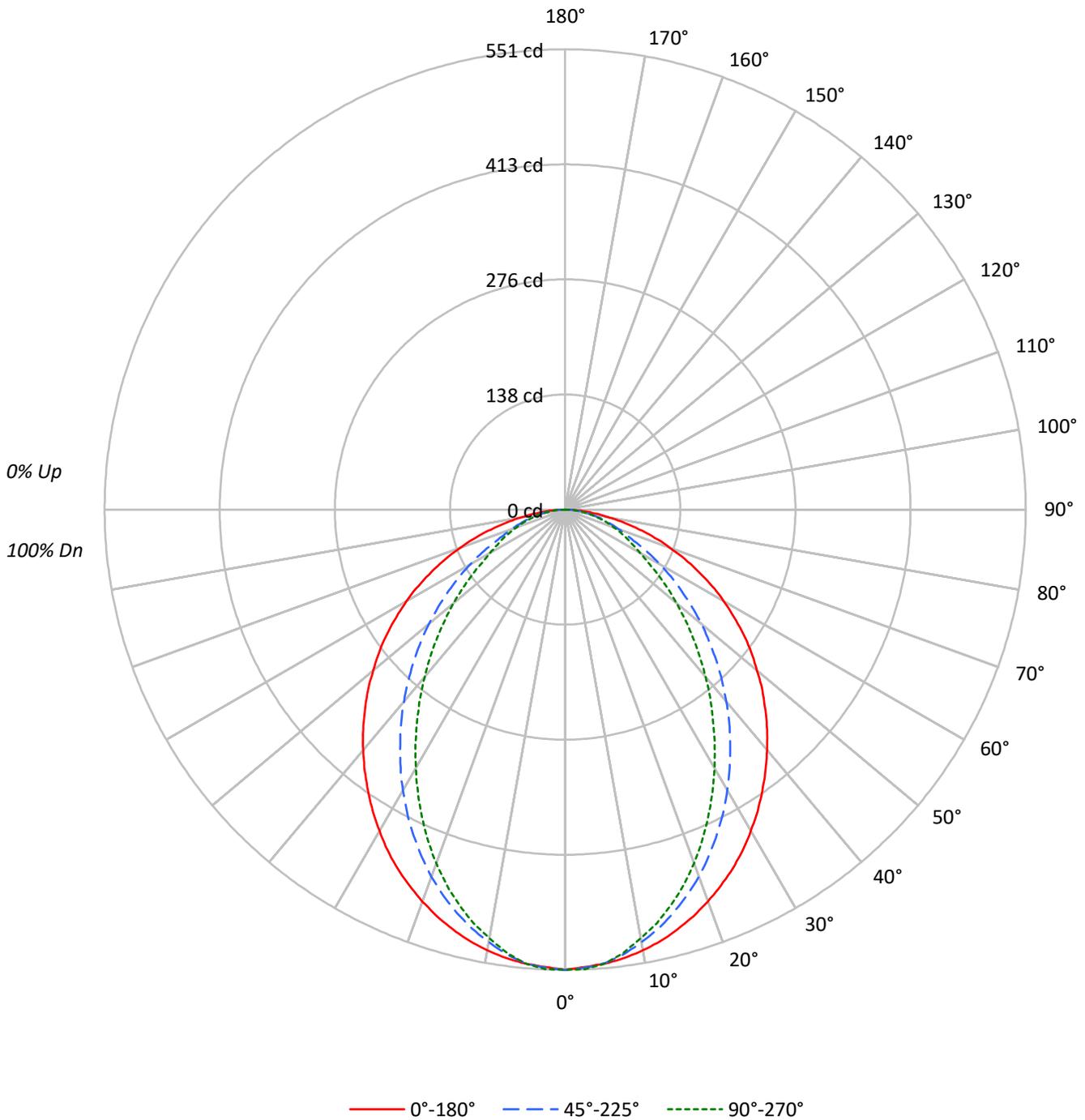
Lumens per Lamp: N/A
Luminaire Lumens: 1167.8 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.01 / 1.17
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 12.6
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°	3895	3895	3895
5°	3872	3869	3872
10°	3846	3775	3740
15°	3807	3660	3585
20°	3756	3519	3392
25°	3699	3350	3161
30°	3627	3168	2917
35°	3548	2970	2662
40°	3468	2768	2411
45°	3384	2555	2161
50°	3294	2337	1913
55°	3211	2099	1664
60°	3098	1845	1462
65°	2944	1564	1358
70°	2763	1399	1271
75°	2499	1289	1199
80°	2170	1168	1120
85°	1695	1030	1030

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3384 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.5	4.4
10°-20°	141.5	12.1
20°-30°	199.9	17.1
30°-40°	220.1	18.8
40°-50°	205.3	17.6
50°-60°	163.9	14.0
60°-70°	110.3	9.4
70°-80°	58.7	5.0
80°-90°	16.3	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°	393.0	33.7
0°-40°	613.2	52.5
0°-60°	982.4	84.1
0°-90°	1167.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1167.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	551	551	551	551	551	
5°	546	550	545	544	546	52
15°	520	517	500	492	490	147
25°	474	460	430	411	405	218
35°	411	387	344	317	308	257
45°	338	306	256	224	216	261
55°	260	221	170	143	135	233
65°	176	137	94	83	81	175
75°	92	61	47	44	44	97
85°	21	14	13	13	13	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	551.0	551.0	551.0	551.0	551.0
2.5°	548.1	552.6	548.9	549.7	550.6
5°	545.6	550.1	545.2	543.6	545.6
7.5°	541.5	545.2	537.0	533.3	535.0
10°	535.8	538.2	525.9	521.0	521.0
12.5°	528.8	528.8	514.0	507.1	507.1
15°	520.2	517.3	500.1	491.5	489.8
17.5°	510.4	505.0	484.5	473.4	471.4
20°	499.3	490.7	467.7	453.3	450.9
22.5°	487.0	475.9	449.2	431.6	428.7
25°	474.2	459.9	429.5	410.7	405.3
27.5°	459.9	442.7	409.4	388.1	381.5
30°	444.3	424.6	388.1	364.3	357.3
32.5°	428.3	406.1	366.4	340.9	333.1
35°	411.1	386.9	344.2	317.1	308.5
37.5°	393.8	367.6	322.5	294.1	285.1
40°	375.8	347.1	299.9	270.8	261.3
42.5°	357.7	327.0	277.7	248.2	238.4
45°	338.5	306.5	255.6	224.4	216.2
47.5°	320.0	285.5	233.8	203.5	194.5
50°	299.5	263.8	212.5	182.2	173.9
52.5°	280.6	242.5	191.2	162.9	154.3
55°	260.5	221.1	170.3	143.2	135.0
57.5°	239.6	199.8	150.2	124.7	116.9
60°	219.1	178.5	130.5	107.1	103.4
62.5°	198.2	158.4	112.0	93.9	91.5
65°	176.0	137.4	93.5	82.9	81.2
67.5°	155.1	117.3	78.8	72.6	71.0
70°	133.7	97.2	67.7	62.4	61.5
72.5°	112.8	77.9	57.0	53.3	52.5
75°	91.5	60.7	47.2	44.3	43.9
77.5°	71.8	45.5	37.3	36.1	35.3
80°	53.3	34.1	28.7	27.9	27.5
82.5°	36.5	23.4	20.5	20.5	19.7
85°	20.9	14.4	12.7	13.1	12.7
87.5°	7.8	6.2	5.7	6.2	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)