

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: P1056429

Luminaire Tested: S125R3DR-S375D930-X4F0-XX-UDD-FLL-W

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056429
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-S375D930-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, 90 CRI LEDS
Ballast/Driver: -

Summary

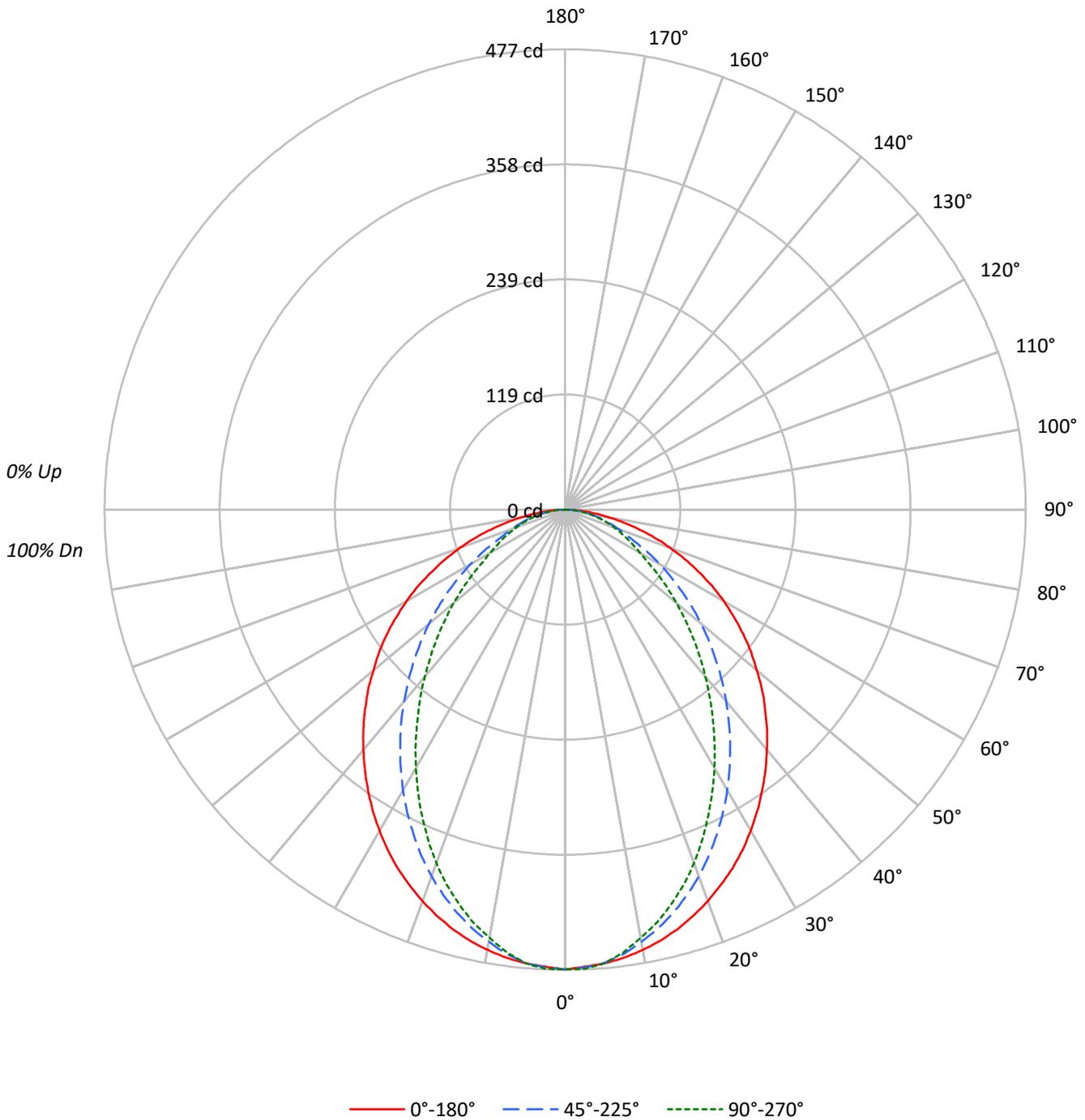
Lumens per Lamp: N/A
Luminaire Lumens: 1010.1 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.01 / 1.17
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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	31	42	35	30	41	35	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3369	3369	3369
5°	3349	3347	3349
10°	3327	3265	3235
15°	3293	3166	3101
20°	3249	3043	2934
25°	3200	2898	2735
30°	3137	2740	2523
35°	3069	2569	2303
40°	3000	2394	2086
45°	2927	2210	1870
50°	2850	2021	1655
55°	2777	1815	1440
60°	2679	1595	1264
65°	2546	1353	1176
70°	2391	1211	1100
75°	2161	1114	1038
80°	1877	1010	969
85°	1468	892	892

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2927 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.6	4.4
10°-20°	122.4	12.1
20°-30°	172.9	17.1
30°-40°	190.4	18.8
40°-50°	177.6	17.6
50°-60°	141.8	14.0
60°-70°	95.4	9.4
70°-80°	50.8	5.0
80°-90°	14.1	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°	340.0	33.7
0°-40°	530.4	52.5
0°-60°	849.7	84.1
0°-90°	1010.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1010.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	477	477	477	477	477	
5°	472	476	472	470	472	45
15°	450	448	433	425	424	127
25°	410	398	372	355	351	189
35°	356	335	298	274	267	223
45°	293	265	221	194	187	226
55°	225	191	147	124	117	201
65°	152	119	81	72	70	151
75°	79	52	41	38	38	84
85°	18	12	11	11	11	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	476.6	476.6	476.6	476.6	476.6
2.5°	474.1	478.0	474.8	475.5	476.2
5°	472.0	475.9	471.6	470.2	472.0
7.5°	468.4	471.6	464.5	461.3	462.7
10°	463.5	465.6	454.9	450.7	450.7
12.5°	457.4	457.4	444.6	438.6	438.6
15°	450.0	447.5	432.6	425.1	423.7
17.5°	441.5	436.8	419.1	409.5	407.7
20°	431.9	424.4	404.5	392.1	390.0
22.5°	421.2	411.6	388.6	373.3	370.8
25°	410.2	397.8	371.5	355.2	350.6
27.5°	397.8	382.9	354.2	335.7	330.0
30°	384.3	367.3	335.7	315.1	309.1
32.5°	370.5	351.3	316.9	294.9	288.2
35°	355.6	334.6	297.7	274.3	266.9
37.5°	340.7	318.0	278.9	254.4	246.6
40°	325.1	300.2	259.4	234.2	226.0
42.5°	309.4	282.8	240.2	214.7	206.2
45°	292.8	265.1	221.1	194.1	187.0
47.5°	276.8	247.0	202.3	176.0	168.2
50°	259.1	228.2	183.8	157.6	150.5
52.5°	242.7	209.7	165.4	140.9	133.4
55°	225.3	191.3	147.3	123.8	116.8
57.5°	207.2	172.8	129.9	107.9	101.1
60°	189.5	154.4	112.8	92.6	89.4
62.5°	171.4	137.0	96.9	81.3	79.1
65°	152.2	118.9	80.9	71.7	70.3
67.5°	134.1	101.5	68.1	62.8	61.4
70°	115.7	84.1	58.6	53.9	53.2
72.5°	97.6	67.4	49.3	46.1	45.4
75°	79.1	52.5	40.8	38.3	38.0
77.5°	62.1	39.4	32.3	31.2	30.5
80°	46.1	29.5	24.8	24.1	23.8
82.5°	31.6	20.2	17.7	17.7	17.0
85°	18.1	12.4	11.0	11.4	11.0
87.5°	6.7	5.3	5.0	5.3	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)