

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: P1056427

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

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-11)
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-B
Description: DEFINE 5, BLACK 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

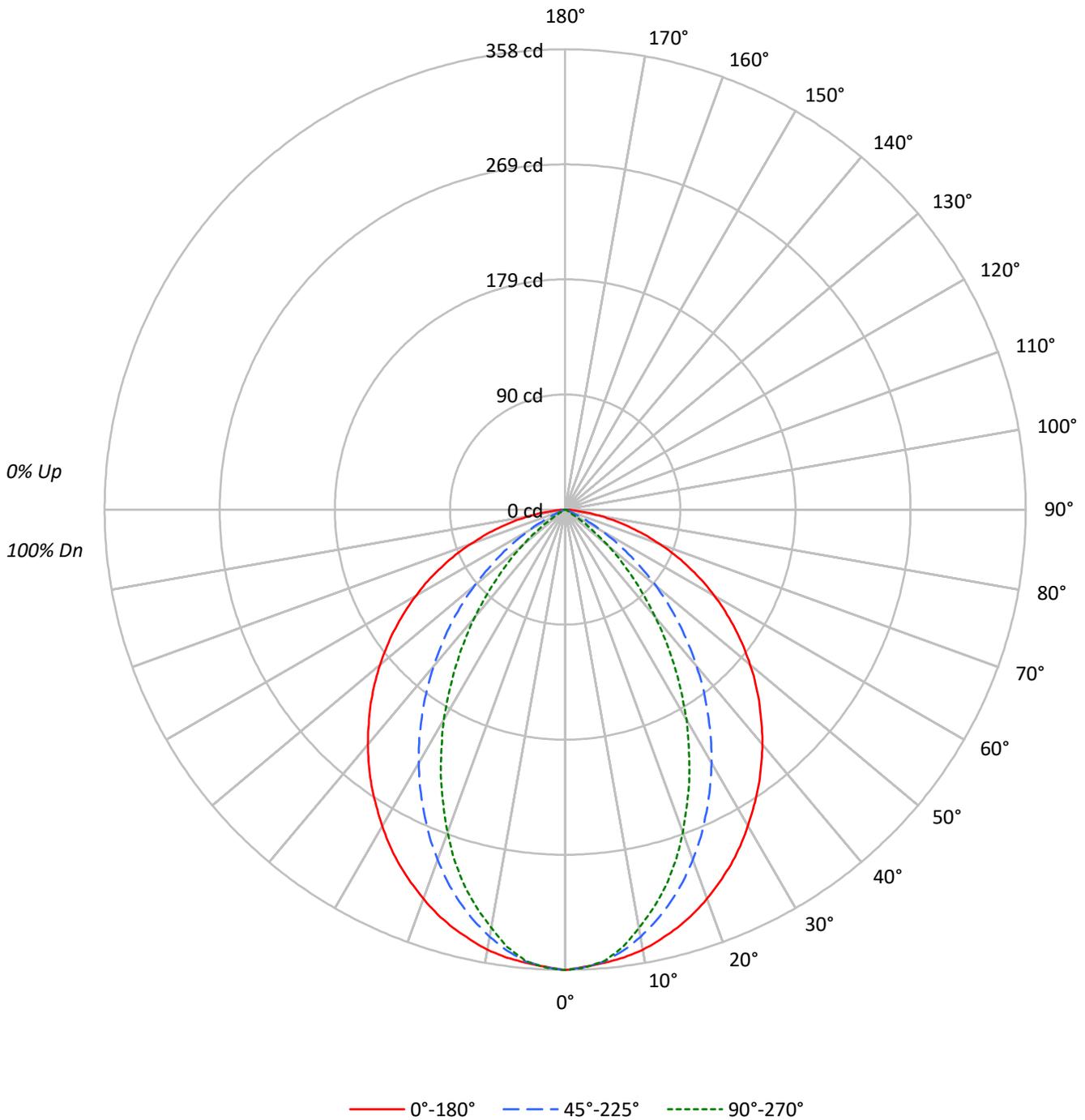
Lumens per Lamp: N/A
Luminaire Lumens: 580.4 lumens
Efficiency: N/A
Efficacy: 46.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.89 / 1.07
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89	
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			78	
3	96	87	81	75	94	86	80	75	83	78	74	80	76	72	78	74	71	69			69	
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	61			61	
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55			55	
6	77	66	58	53	76	65	58	52	63	57	52	62	56	52	60	55	51	49			49	
7	72	61	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45			45	
8	68	56	48	43	66	55	48	43	54	47	43	53	47	43	52	46	42	41			41	
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37			37	
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34			34	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2532	2532	2532
5°	2511	2503	2501
10°	2497	2423	2372
15°	2465	2314	2215
20°	2424	2181	2010
25°	2377	2026	1782
30°	2320	1857	1541
35°	2263	1669	1274
40°	2201	1467	1009
45°	2135	1253	731
50°	2064	1011	472
55°	1986	740	210
60°	1892	457	61
65°	1775	166	35
70°	1606	58	14
75°	1396	19	11
80°	1071	16	0
85°	487	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2135 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.3	5.7
10°-20°	89.3	15.4
20°-30°	120.8	20.8
30°-40°	124.1	21.4
40°-50°	102.8	17.7
50°-60°	66.0	11.4
60°-70°	31.9	5.5
70°-80°	10.8	1.9
80°-90°	1.4	0.2
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°	243.4	41.9
0°-40°	367.5	63.3
0°-60°	536.3	92.4
0°-90°	580.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	580.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	358	358	358	358	358	
5°	354	357	353	351	352	34
15°	337	332	316	305	303	95
25°	305	290	260	236	228	140
35°	262	237	193	160	148	164
45°	214	178	125	87	73	165
55°	161	118	60	26	17	144
65°	106	59	10	3	2	105
75°	51	11	1	0	0	54
85°	6	0	0	0	0	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	358.1	358.1	358.1	358.1	358.1
2.5°	355.9	358.8	356.3	355.9	356.6
5°	353.8	356.6	352.7	350.6	352.4
7.5°	351.3	352.7	346.0	342.4	343.2
10°	347.8	347.4	337.5	331.4	330.4
12.5°	342.4	340.7	327.5	319.0	317.3
15°	336.8	332.5	316.2	305.2	302.7
17.5°	330.0	323.3	303.8	289.6	286.0
20°	322.2	313.0	289.9	272.5	267.2
22.5°	313.7	302.0	275.4	254.8	247.7
25°	304.8	289.9	259.8	236.3	228.5
27.5°	294.9	277.5	244.1	217.5	208.0
30°	284.2	264.4	227.5	198.4	188.8
32.5°	273.2	251.2	210.8	179.2	167.5
35°	262.2	237.1	193.4	159.7	147.6
37.5°	250.5	222.9	176.4	141.2	128.1
40°	238.5	208.3	159.0	122.1	109.3
42.5°	226.0	193.4	141.6	104.0	90.8
45°	213.6	178.5	125.3	86.6	73.1
47.5°	200.9	163.2	108.2	69.6	57.8
50°	187.7	148.3	91.9	54.3	42.9
52.5°	174.6	133.1	75.2	39.4	29.1
55°	161.1	118.2	60.0	26.3	17.0
57.5°	147.6	102.9	45.8	14.5	6.4
60°	133.8	88.4	32.3	5.0	4.3
62.5°	120.3	72.7	20.2	3.9	3.2
65°	106.1	58.6	9.9	2.8	2.1
67.5°	92.3	45.1	4.3	1.8	1.1
70°	77.7	32.6	2.8	1.1	0.7
72.5°	64.2	20.9	1.8	0.7	0.4
75°	51.1	11.0	0.7	0.4	0.4
77.5°	38.3	4.6	0.4	0.4	0.4
80°	26.3	2.1	0.4	0.4	0.0
82.5°	15.6	0.7	0.4	0.4	0.0
85°	6.0	0.0	0.0	0.0	0.0
87.5°	0.4	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)