

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: P1056415

Luminaire Tested: S125R3DR-S375D835-X4F0-XX-UDD-FLL-B

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056415
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-S375D835-X4F0-XX-UDD-FLL-B
Description: DEFINE 5, BLACK 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

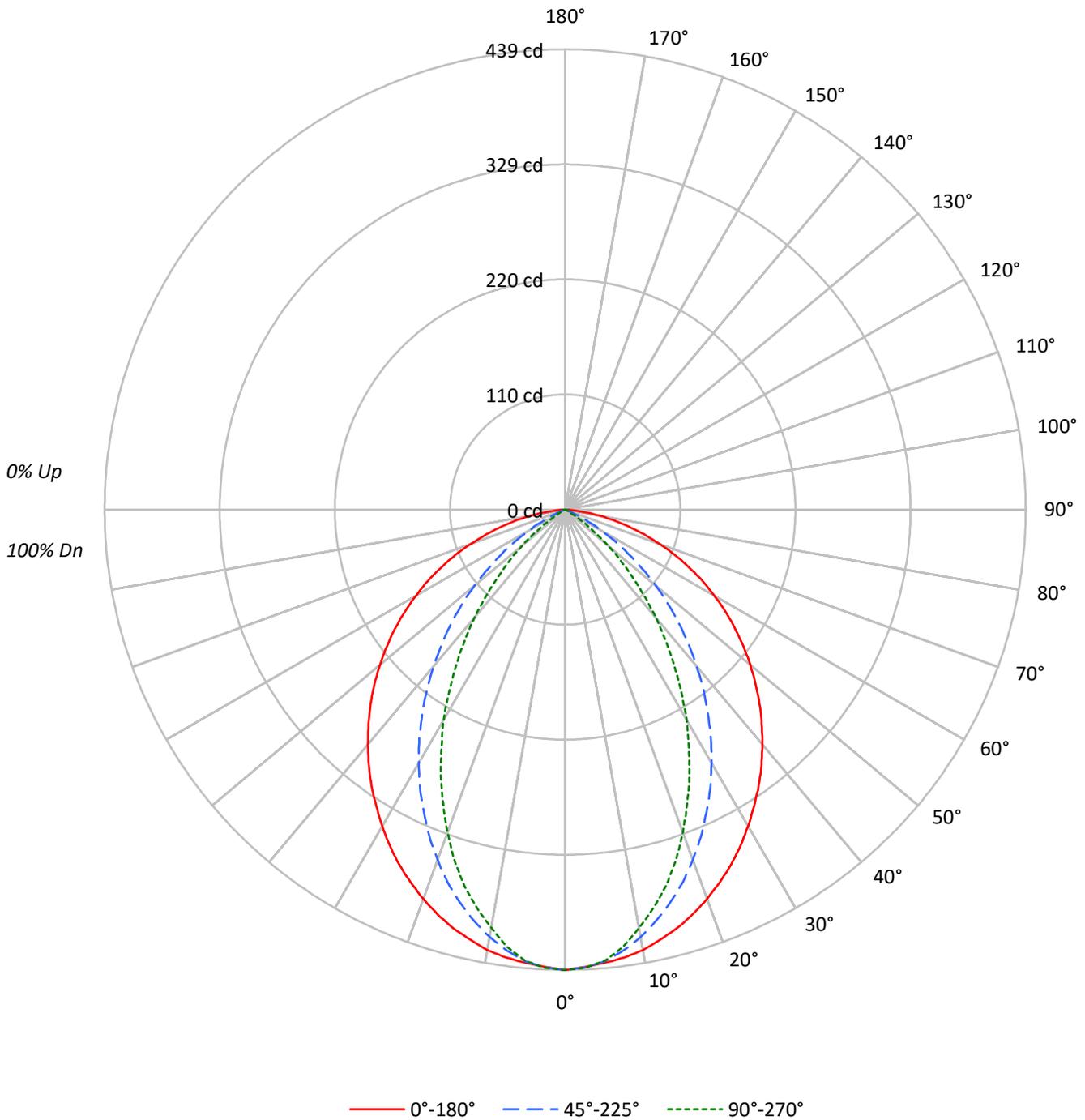
Lumens per Lamp: N/A
Luminaire Lumens: 711.8 lumens
Efficiency: N/A
Efficacy: 56.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.89 / 1.07
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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°	3105	3105	3105
5°	3080	3070	3067
10°	3062	2971	2909
15°	3023	2838	2717
20°	2973	2675	2466
25°	2916	2485	2186
30°	2846	2277	1891
35°	2776	2047	1563
40°	2699	1800	1238
45°	2619	1536	897
50°	2533	1239	580
55°	2435	907	258
60°	2320	560	74
65°	2176	204	43
70°	1970	72	19
75°	1713	25	11
80°	1311	16	0
85°	600	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2619 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.8	5.7
10°-20°	109.5	15.4
20°-30°	148.2	20.8
30°-40°	152.2	21.4
40°-50°	126.1	17.7
50°-60°	81.0	11.4
60°-70°	39.1	5.5
70°-80°	13.2	1.9
80°-90°	1.7	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°	298.5	41.9
0°-40°	450.7	63.3
0°-60°	657.8	92.4
0°-90°	711.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	711.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	439	439	439	439	439	
5°	434	437	433	430	432	41
15°	413	408	388	374	371	116
25°	374	356	319	290	280	172
35°	322	291	237	196	181	201
45°	262	219	154	106	90	202
55°	198	145	74	32	21	177
65°	130	72	12	4	3	129
75°	63	14	1	0	0	66
85°	7	0	0	0	0	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	439.2	439.2	439.2	439.2	439.2
2.5°	436.6	440.0	437.0	436.6	437.4
5°	434.0	437.4	432.6	430.0	432.2
7.5°	430.9	432.6	424.4	420.0	420.9
10°	426.6	426.1	413.9	406.5	405.2
12.5°	420.0	417.8	401.7	391.3	389.1
15°	413.1	407.8	387.8	374.3	371.3
17.5°	404.8	396.5	372.6	355.2	350.8
20°	395.2	383.9	355.6	334.3	327.8
22.5°	384.8	370.4	337.8	312.5	303.8
25°	373.9	355.6	318.6	289.9	280.3
27.5°	361.7	340.4	299.5	266.8	255.1
30°	348.6	324.3	279.0	243.3	231.6
32.5°	335.1	308.2	258.5	219.8	205.4
35°	321.7	290.8	237.2	195.9	181.1
37.5°	307.3	273.3	216.3	173.2	157.1
40°	292.5	255.5	195.0	149.7	134.1
42.5°	277.3	237.2	173.7	127.5	111.4
45°	262.0	218.9	153.6	106.2	89.7
47.5°	246.4	200.2	132.8	85.3	70.9
50°	230.3	181.9	112.7	66.6	52.7
52.5°	214.1	163.2	92.3	48.3	35.7
55°	197.6	144.9	73.6	32.2	20.9
57.5°	181.1	126.2	56.1	17.8	7.8
60°	164.1	108.4	39.6	6.1	5.2
62.5°	147.6	89.2	24.8	4.8	3.9
65°	130.1	71.8	12.2	3.5	2.6
67.5°	113.2	55.3	5.2	2.2	1.3
70°	95.3	40.0	3.5	1.3	0.9
72.5°	78.8	25.7	2.2	0.9	0.4
75°	62.7	13.5	0.9	0.4	0.4
77.5°	47.0	5.7	0.4	0.4	0.4
80°	32.2	2.6	0.4	0.4	0.0
82.5°	19.2	0.9	0.4	0.4	0.0
85°	7.4	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)