

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: P1056413

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

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056413
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-12)
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-S
Description: DEFINE 5, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

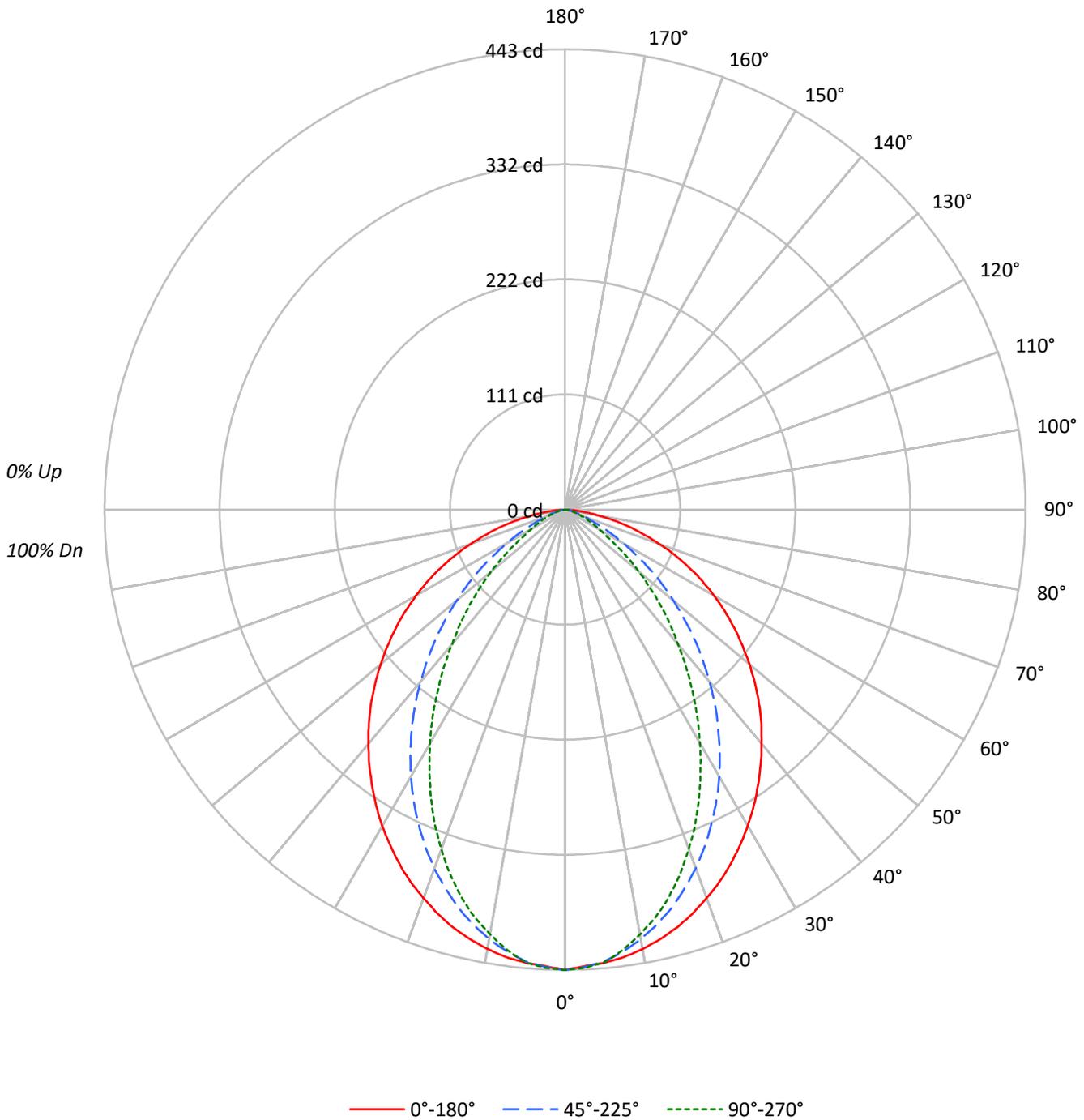
Lumens per Lamp: N/A
Luminaire Lumens: 800.8 lumens
Efficiency: N/A
Efficacy: 63.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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				
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88				
2	102	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67				
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59				
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52				
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47				
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	54	48	44	42				
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38				
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36	35				
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3132	3132	3132
5°	3106	3098	3103
10°	3083	3013	2980
15°	3048	2903	2825
20°	2993	2765	2617
25°	2938	2601	2381
30°	2870	2421	2120
35°	2794	2216	1844
40°	2714	1991	1560
45°	2637	1756	1292
50°	2545	1494	1015
55°	2448	1214	738
60°	2337	905	527
65°	2196	597	411
70°	1984	415	287
75°	1726	268	224
80°	1352	199	183
85°	698	170	130

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2637 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.3	5.2
10°-20°	112.2	14.0
20°-30°	155.1	19.4
30°-40°	164.4	20.5
40°-50°	143.5	17.9
50°-60°	102.0	12.7
60°-70°	56.7	7.1
70°-80°	21.8	2.7
80°-90°	3.8	0.5
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°	308.6	38.5
0°-40°	473.0	59.1
0°-60°	718.5	89.7
0°-90°	800.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	800.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	443	443	443	443	443	
5°	438	441	436	435	437	42
15°	416	413	397	388	386	117
25°	377	364	334	313	305	173
35°	324	302	257	226	214	202
45°	264	232	176	140	129	203
55°	199	159	98	68	60	178
65°	131	86	36	26	25	130
75°	63	25	10	8	8	67
85°	9	2	2	2	2	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	443.1	443.1	443.1	443.1	443.1
2.5°	439.8	444.3	440.6	441.0	441.4
5°	437.7	441.0	436.5	435.3	437.3
7.5°	434.5	436.9	429.1	426.2	427.5
10°	429.5	430.4	419.7	415.6	415.2
12.5°	423.4	422.1	409.0	402.5	402.0
15°	416.4	412.7	396.7	388.1	386.0
17.5°	407.8	402.0	382.4	371.3	368.0
20°	397.9	390.1	367.6	353.2	347.9
22.5°	388.1	377.4	351.2	333.1	327.4
25°	376.6	363.9	333.5	313.0	305.2
27.5°	364.3	349.1	315.5	291.7	282.3
30°	351.6	333.9	296.6	269.9	259.7
32.5°	338.0	317.9	276.9	247.8	237.1
35°	323.7	301.5	256.8	225.6	213.7
37.5°	309.3	284.7	237.1	203.9	191.6
40°	294.1	267.5	215.8	181.7	169.0
42.5°	279.4	249.8	195.7	160.8	149.3
45°	263.8	232.2	175.6	140.3	129.2
47.5°	247.8	213.7	155.5	121.0	109.9
50°	231.4	195.7	135.8	102.2	92.3
52.5°	215.0	177.6	117.3	84.1	75.5
55°	198.6	159.2	98.5	68.1	59.9
57.5°	182.2	141.1	80.8	53.3	45.9
60°	165.3	122.7	64.0	39.4	37.3
62.5°	148.5	104.6	49.6	32.4	30.8
65°	131.3	86.2	35.7	26.3	24.6
67.5°	114.0	69.3	25.8	20.1	18.9
70°	96.0	52.9	20.1	15.2	13.9
72.5°	78.8	38.2	14.4	11.1	10.7
75°	63.2	24.6	9.8	8.2	8.2
77.5°	47.6	14.8	7.0	6.2	6.2
80°	33.2	8.6	4.9	4.5	4.5
82.5°	20.1	4.5	3.3	2.9	2.9
85°	8.6	2.5	2.1	1.6	1.6
87.5°	1.6	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)