

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: P1056416

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

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056416
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-S375D835-X4F0-XX-UDD-FLL-S
Description: DEFINE 5, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

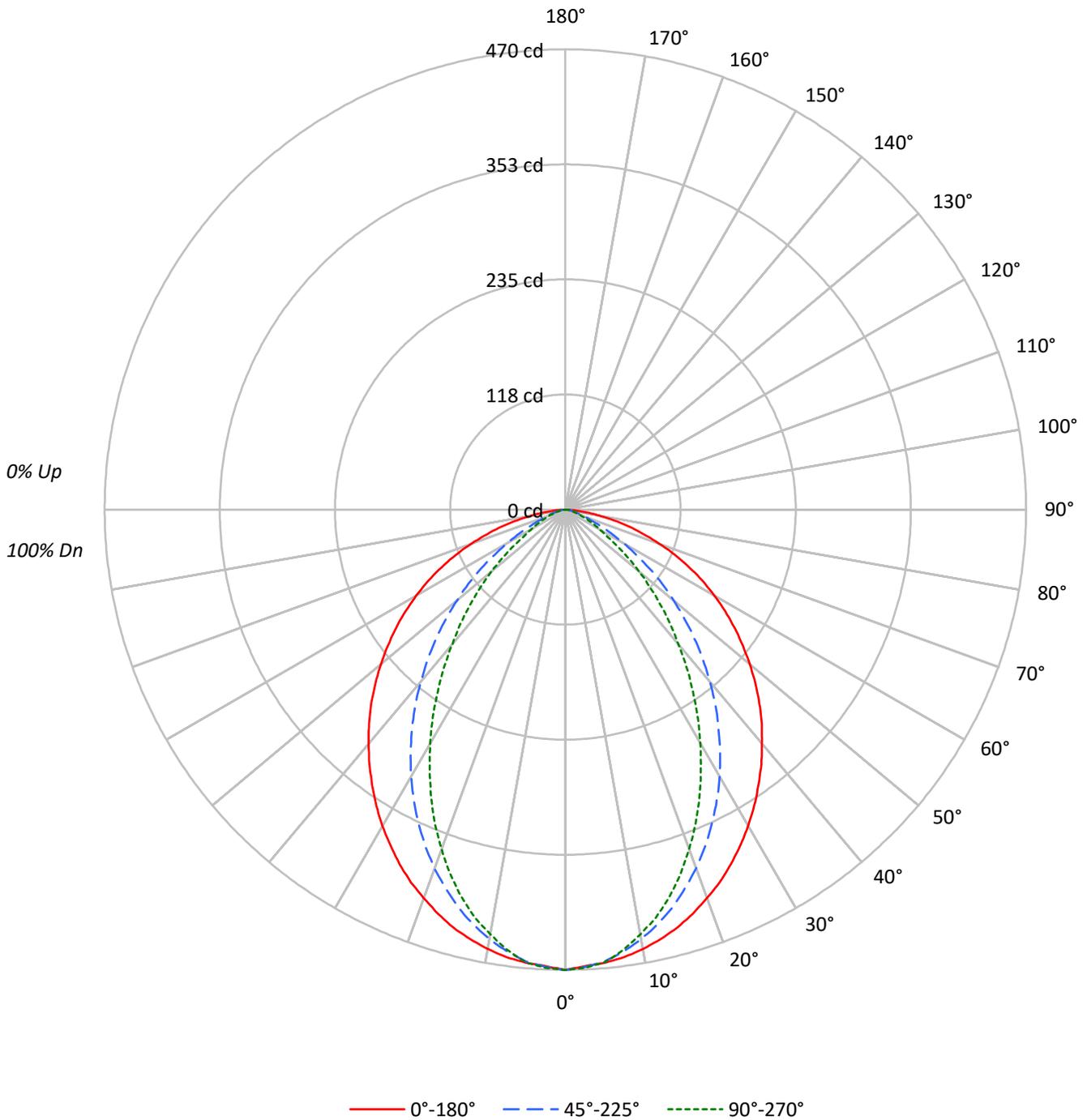
Lumens per Lamp: N/A
Luminaire Lumens: 849.6 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3323	3323	3323
5°	3296	3286	3293
10°	3271	3197	3162
15°	3233	3080	2998
20°	3176	2934	2777
25°	3117	2760	2526
30°	3045	2569	2249
35°	2964	2352	1957
40°	2880	2112	1655
45°	2798	1863	1371
50°	2700	1585	1077
55°	2597	1288	783
60°	2480	960	560
65°	2330	634	437
70°	2106	440	306
75°	1830	284	238
80°	1437	212	195
85°	738	178	138

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2798 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	5.2
10°-20°	119.0	14.0
20°-30°	164.6	19.4
30°-40°	174.4	20.5
40°-50°	152.2	17.9
50°-60°	108.3	12.7
60°-70°	60.2	7.1
70°-80°	23.1	2.7
80°-90°	4.0	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°	327.4	38.5
0°-40°	501.8	59.1
0°-60°	762.3	89.7
0°-90°	849.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	849.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	470	470	470	470	470	
5°	464	468	463	462	464	44
15°	442	438	421	412	410	124
25°	400	386	354	332	324	184
35°	343	320	272	239	227	215
45°	280	246	186	149	137	216
55°	211	169	104	72	64	188
65°	139	91	38	28	26	138
75°	67	26	10	9	9	71
85°	9	3	2	2	2	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	470.1	470.1	470.1	470.1	470.1
2.5°	466.6	471.4	467.5	467.9	468.3
5°	464.4	467.9	463.1	461.8	464.0
7.5°	460.9	463.6	455.3	452.2	453.5
10°	455.7	456.6	445.3	440.9	440.5
12.5°	449.2	447.9	434.0	427.0	426.6
15°	441.8	437.9	420.9	411.8	409.6
17.5°	432.6	426.6	405.7	393.9	390.4
20°	422.2	413.9	390.0	374.8	369.1
22.5°	411.8	400.4	372.6	353.4	347.3
25°	399.6	386.1	353.9	332.1	323.8
27.5°	386.5	370.4	334.7	309.5	299.5
30°	373.0	354.3	314.7	286.4	275.5
32.5°	358.7	337.3	293.8	262.9	251.6
35°	343.4	319.9	272.5	239.4	226.8
37.5°	328.2	302.1	251.6	216.3	203.3
40°	312.1	283.8	228.9	192.8	179.3
42.5°	296.4	265.1	207.6	170.6	158.4
45°	279.9	246.4	186.3	148.9	137.1
47.5°	262.9	226.8	165.0	128.4	116.6
50°	245.5	207.6	144.1	108.4	97.9
52.5°	228.1	188.5	124.5	89.2	80.1
55°	210.7	168.9	104.5	72.3	63.5
57.5°	193.3	149.7	85.7	56.6	48.7
60°	175.4	130.1	67.9	41.8	39.6
62.5°	157.6	111.0	52.7	34.4	32.6
65°	139.3	91.4	37.9	27.9	26.1
67.5°	121.0	73.6	27.4	21.3	20.0
70°	101.9	56.1	21.3	16.1	14.8
72.5°	83.6	40.5	15.2	11.8	11.3
75°	67.0	26.1	10.4	8.7	8.7
77.5°	50.5	15.7	7.4	6.5	6.5
80°	35.3	9.1	5.2	4.8	4.8
82.5°	21.3	4.8	3.5	3.0	3.0
85°	9.1	2.6	2.2	1.7	1.7
87.5°	1.7	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)