

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: P1055675

Luminaire Tested: S123R3DR-S775D935-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-6)
Test Lab: INNOVATION CENTER
Issue Date: 7/25/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123R3DR-S775D935-X4F0-XX-UDD-FLL-S
Description: DEFINE 3, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

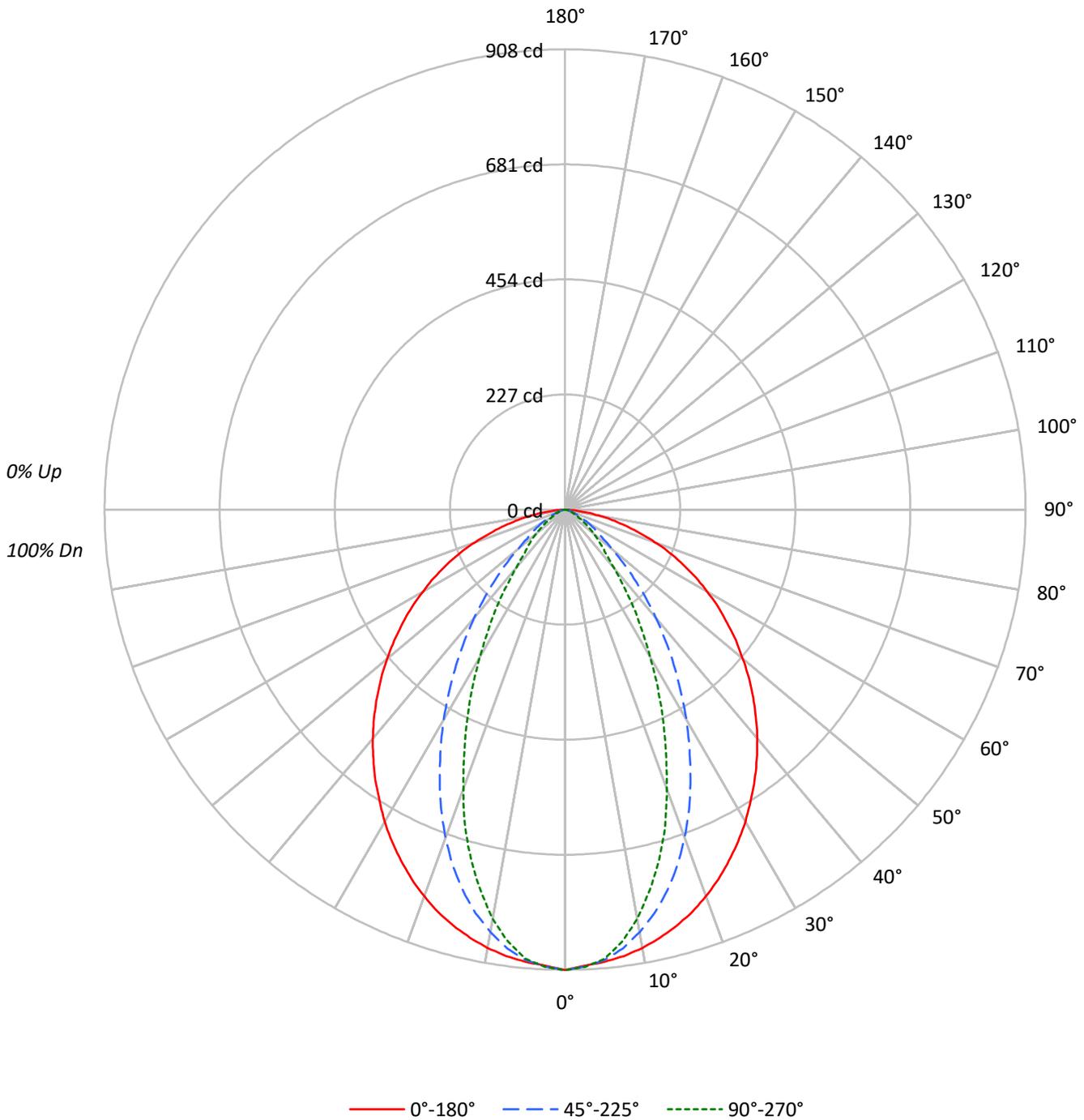
Lumens per Lamp: N/A
Luminaire Lumens: 1263.3 lumens
Efficiency: N/A
Efficacy: 47.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 0.77 / 0.94
Luminous Opening: Rectangular (W 0.23' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 26.4
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	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89	
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79	
3	96	88	81	76	94	86	80	76	84	78	74	81	77	73	79	75	72	70			70	
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62			62	
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56			56	
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51			51	
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			46	
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	42			42	
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39			39	
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36			36	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10952	10952	10952
5°	10837	10795	10764
10°	10751	10362	10035
15°	10607	9715	8931
20°	10417	8837	7522
25°	10171	7777	6070
30°	9901	6664	4675
35°	9593	5500	3460
40°	9283	4377	2358
45°	8939	3274	1777
50°	8575	2277	1388
55°	8198	1665	1013
60°	7805	1247	726
65°	7343	836	565
70°	6648	606	455
75°	5734	443	359
80°	4603	361	299
85°	2379	360	235

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8939 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	6.6
10°-20°	218.6	17.3
20°-30°	274.6	21.7
30°-40°	255.8	20.2
40°-50°	195.8	15.5
50°-60°	130.1	10.3
60°-70°	70.2	5.6
70°-80°	28.7	2.3
80°-90°	5.5	0.4
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°	577.1	45.7
0°-40°	832.9	65.9
0°-60°	1158.8	91.7
0°-90°	1263.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1263.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	908	908	908	908	908	
5°	895	905	892	888	889	85
15°	850	836	778	733	716	239
25°	765	713	585	487	456	352
35°	652	555	374	264	235	407
45°	524	387	192	113	104	405
55°	390	226	79	55	48	349
65°	257	87	29	22	20	254
75°	123	21	10	9	8	132
85°	17	3	3	3	2	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	908.4	908.4	908.4	908.4	908.4
2.5°	900.6	911.8	902.3	903.2	903.2
5°	895.4	904.9	892.0	888.5	889.4
7.5°	888.5	894.6	873.1	861.9	860.1
10°	878.2	879.9	846.4	826.6	819.7
12.5°	865.3	859.3	815.4	782.6	769.7
15°	849.8	836.0	778.3	732.7	715.5
17.5°	832.6	809.3	736.2	676.7	656.1
20°	811.9	779.2	688.8	614.8	586.3
22.5°	789.5	747.3	638.9	551.0	519.2
25°	764.6	712.9	584.6	487.3	456.3
27.5°	738.7	675.9	531.2	427.1	395.2
30°	711.2	638.0	478.7	368.5	335.8
32.5°	681.0	596.7	424.5	314.3	281.5
35°	651.8	555.3	373.7	264.3	235.1
37.5°	620.8	514.0	324.6	220.4	187.7
40°	589.8	471.8	278.1	177.4	149.8
42.5°	557.1	429.6	234.2	141.2	119.7
45°	524.3	387.4	192.0	112.8	104.2
47.5°	491.6	345.3	155.0	97.3	88.7
50°	457.2	304.8	121.4	82.7	74.0
52.5°	424.5	264.3	94.7	68.0	60.3
55°	390.0	225.6	79.2	55.1	48.2
57.5°	358.2	186.0	65.4	43.0	37.9
60°	323.7	150.7	51.7	33.6	30.1
62.5°	291.0	118.0	39.6	26.7	24.1
65°	257.4	87.0	29.3	21.5	19.8
67.5°	223.9	62.9	22.4	17.2	16.4
70°	188.6	47.4	17.2	13.8	12.9
72.5°	155.0	33.6	12.9	11.2	10.3
75°	123.1	20.7	9.5	8.6	7.7
77.5°	94.7	12.1	6.9	6.9	6.0
80°	66.3	6.9	5.2	5.2	4.3
82.5°	40.5	4.3	3.4	3.4	3.4
85°	17.2	2.6	2.6	2.6	1.7
87.5°	2.6	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)