

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: P1059379

Luminaire Tested: S123RDR-S775D930-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1059379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-28)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDR-S775D930-X4F0-XX-UDD-WVL-B
Description: DEFINE 3 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

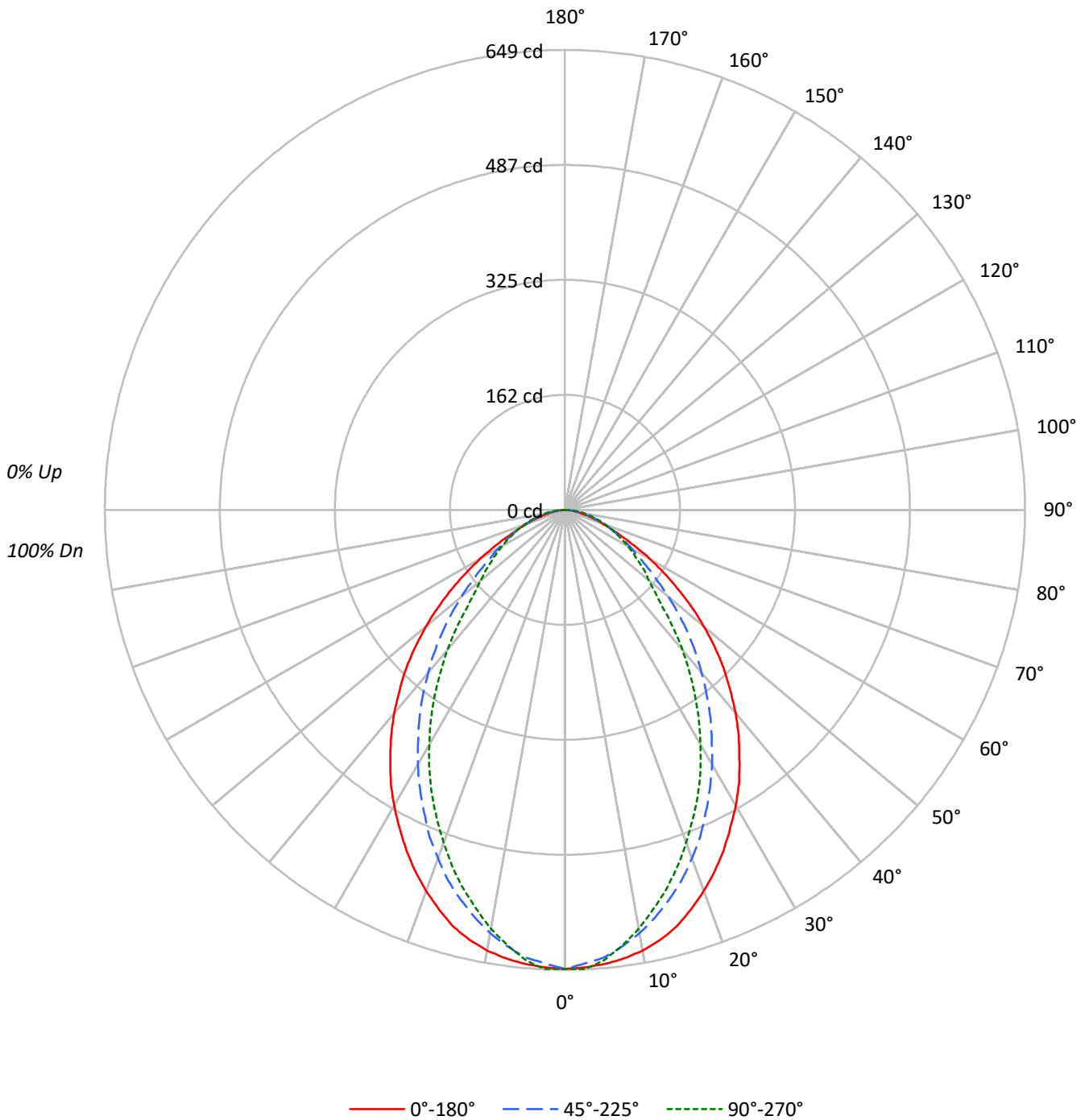
Lumens per Lamp: N/A
Luminaire Lumens: 1133.1 lumens
Efficiency: N/A
Efficacy: 43.9 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.95 / 1.09
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
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	104	101	98	100	98	95	96	94	92	93	91	89	88				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76				
3	94	85	78	73	92	84	77	72	81	75	71	78	73	69	76	72	68	66				
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58				
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52				
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47				
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	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	37	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°	7607	7607	7607
5°	7582	7471	7517
10°	7530	7233	7158
15°	7402	6920	6730
20°	7151	6539	6247
25°	6860	6093	5750
30°	6535	5627	5184
35°	6150	5123	4587
40°	5741	4596	3950
45°	5263	4060	3245
50°	4666	3486	2817
55°	3970	2917	2582
60°	3236	2541	2395
65°	2467	2251	2228
70°	1926	2005	2084
75°	1556	1801	1942
80°	1156	1474	1792
85°	633	943	1576

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5263 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	5.3
10°-20°	161.8	14.3
20°-30°	220.0	19.4
30°-40°	228.0	20.1
40°-50°	192.3	17.0
50°-60°	136.5	12.0
60°-70°	83.4	7.4
70°-80°	41.5	3.7
80°-90°	9.4	0.8
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°	441.9	39.0
0°-40°	669.9	59.1
0°-60°	998.7	88.1
0°-90°	1133.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1133.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	648	648	648	648	648	
5°	643	643	634	638	638	61
15°	609	597	569	559	554	171
25°	530	506	470	453	444	243
35°	429	396	357	332	320	268
45°	317	283	244	211	195	243
55°	194	174	142	130	126	174
65°	89	86	81	81	80	91
75°	34	37	40	41	43	37
85°	5	6	7	10	12	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	647.8	647.8	647.8	647.8	647.8
2.5°	646.3	647.1	640.8	647.8	648.6
5°	643.2	643.2	633.8	637.7	637.7
7.5°	638.5	636.9	621.4	621.4	619.8
10°	631.5	626.8	606.6	602.7	600.3
12.5°	621.4	613.6	588.7	581.7	577.0
15°	608.9	597.2	569.2	559.1	553.6
17.5°	591.0	579.3	548.2	534.2	527.9
20°	572.3	555.2	523.3	509.2	499.9
22.5°	552.1	530.3	499.1	482.0	471.9
25°	529.5	506.1	470.3	453.2	443.8
27.5°	505.4	479.7	443.1	423.6	414.2
30°	482.0	452.4	415.0	393.2	382.3
32.5°	457.1	423.6	385.4	362.9	352.0
35°	429.0	396.3	357.4	332.5	320.0
37.5°	402.6	369.1	328.6	302.1	288.1
40°	374.5	341.1	299.8	272.5	257.7
42.5°	344.9	313.0	272.5	240.6	226.6
45°	316.9	283.4	244.5	211.0	195.4
47.5°	286.5	255.4	217.2	183.0	172.1
50°	255.4	226.6	190.8	159.6	154.2
52.5°	225.0	200.9	164.3	144.1	141.7
55°	193.9	173.6	142.5	130.0	126.1
57.5°	165.1	150.3	122.2	116.0	114.5
60°	137.8	125.4	108.2	104.3	102.0
62.5°	111.3	104.3	94.2	92.7	91.1
65°	88.8	85.7	81.0	81.0	80.2
67.5°	70.1	70.1	69.3	70.9	70.1
70°	56.1	56.8	58.4	60.0	60.7
72.5°	44.4	46.7	48.3	50.6	51.4
75°	34.3	36.6	39.7	41.3	42.8
77.5°	24.9	27.3	30.4	32.7	34.3
80°	17.1	18.7	21.8	24.9	26.5
82.5°	10.9	11.7	14.0	17.1	18.7
85°	4.7	5.5	7.0	10.1	11.7
87.5°	0.0	0.0	0.8	3.1	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)