

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: P1060504

Luminaire Tested: S124RDR-S575D927-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060504
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-37)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S575D927-X4F0-XX-UDD-WVL-B
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

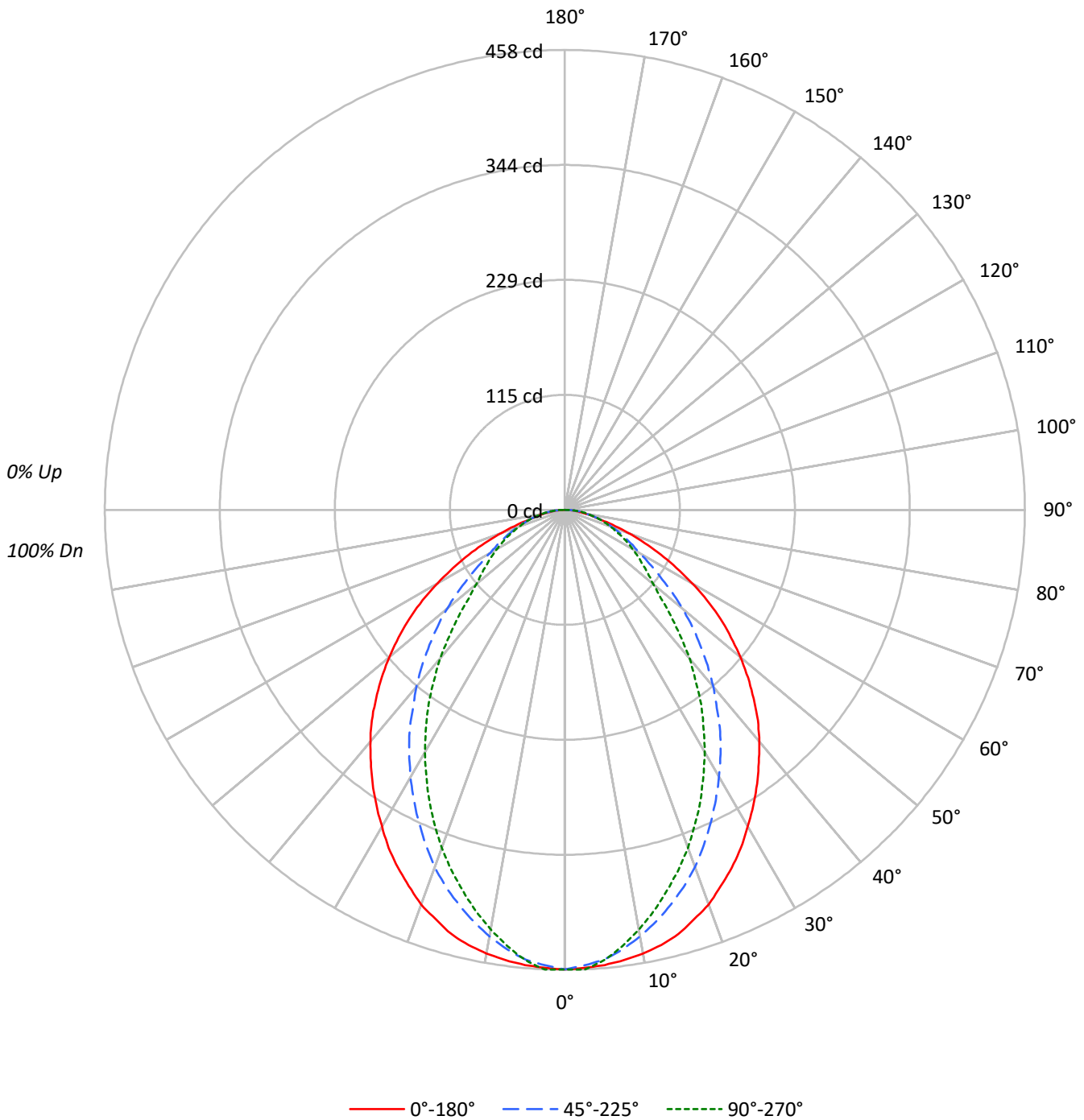
Lumens per Lamp: N/A
Luminaire Lumens: 882.5 lumens
Efficiency: N/A
Efficacy: 45.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.96 / 1.12
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
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

TEST NUMBER: P1060504

CATALOG NUMBER: S124RDR-S575D927-X4F0-XX-UDD-WVL-B

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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88				86	
2	101	94	88	83	99	92	86	82	89	84	80	85	82	78	82	79	76				74	
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66				64	
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58				56	
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52				50	
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46				44	
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42				40	
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38				36	
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35				33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32				30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3941	3941	3941
5°	3933	3886	3892
10°	3923	3771	3710
15°	3898	3629	3500
20°	3834	3469	3282
25°	3736	3266	3036
30°	3620	3054	2770
35°	3506	2833	2487
40°	3386	2582	2171
45°	3236	2319	1815
50°	3054	2046	1535
55°	2842	1736	1422
60°	2520	1473	1343
65°	2148	1359	1271
70°	1679	1259	1206
75°	1145	1164	1164
80°	987	1096	1121
85°	850	1067	1166

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3236 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	4.8
10°-20°	115.6	13.1
20°-30°	160.6	18.2
30°-40°	172.1	19.5
40°-50°	152.5	17.3
50°-60°	114.9	13.0
60°-70°	74.4	8.4
70°-80°	38.2	4.3
80°-90°	11.7	1.3
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°	318.8	36.1
0°-40°	490.9	55.6
0°-60°	758.2	85.9
0°-90°	882.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	882.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	458	458	458	458	458	
5°	455	456	450	450	450	43
15°	437	428	407	397	393	123
25°	393	372	344	325	320	181
35°	334	303	270	245	237	209
45°	266	231	190	161	149	205
55°	189	158	116	97	95	168
65°	105	85	67	63	62	105
75°	34	36	35	35	35	41
85°	9	9	11	12	12	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	457.7	457.7	457.7	457.7	457.7
2.5°	456.6	458.2	453.9	457.2	458.2
5°	455.0	455.5	449.6	450.2	450.2
7.5°	452.3	451.2	441.6	438.9	438.3
10°	448.6	445.3	431.3	426.0	424.3
12.5°	443.7	437.8	420.0	412.5	409.3
15°	437.3	427.6	407.1	396.9	392.6
17.5°	427.6	415.2	393.7	380.8	375.9
20°	418.4	401.8	378.6	362.5	358.2
22.5°	405.5	387.8	361.4	344.2	338.8
25°	393.2	372.2	343.7	325.4	319.5
27.5°	379.7	356.0	325.4	306.0	298.5
30°	364.1	338.8	307.1	286.7	278.6
32.5°	349.1	322.2	288.3	265.7	257.1
35°	333.5	303.3	269.5	245.3	236.6
37.5°	317.3	285.6	248.5	224.8	213.5
40°	301.2	267.8	229.7	202.8	193.1
42.5°	284.5	249.6	210.3	182.3	170.0
45°	265.7	231.3	190.4	160.8	149.0
47.5°	247.4	213.5	172.1	139.8	129.1
50°	228.0	194.7	152.7	121.6	114.6
52.5°	208.7	175.3	133.9	107.6	104.3
55°	189.3	157.6	115.6	97.3	94.7
57.5°	167.8	139.3	99.5	88.2	86.1
60°	146.3	119.4	85.5	79.6	78.0
62.5°	125.3	102.2	75.8	71.0	69.9
65°	105.4	85.0	66.7	62.9	62.4
67.5°	86.1	69.9	58.1	55.9	54.9
70°	66.7	55.9	50.0	48.9	47.9
72.5°	49.5	45.2	42.5	42.0	41.4
75°	34.4	36.0	35.0	35.0	35.0
77.5°	27.4	28.0	28.5	29.0	28.5
80°	19.9	21.5	22.1	23.1	22.6
82.5°	14.0	15.1	16.7	17.2	17.7
85°	8.6	9.1	10.8	11.8	11.8
87.5°	3.8	4.3	5.4	6.5	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)