

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: P1055995

Luminaire Tested: S124R3DR-S1195D930-X4F0-XX-UDD-FLL-B

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-8)
Test Lab: INNOVATION CENTER
Issue Date: 7/25/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124R3DR-S1195D930-X4F0-XX-UDD-FLL-B
Description: DEFINE 4, BLACK 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

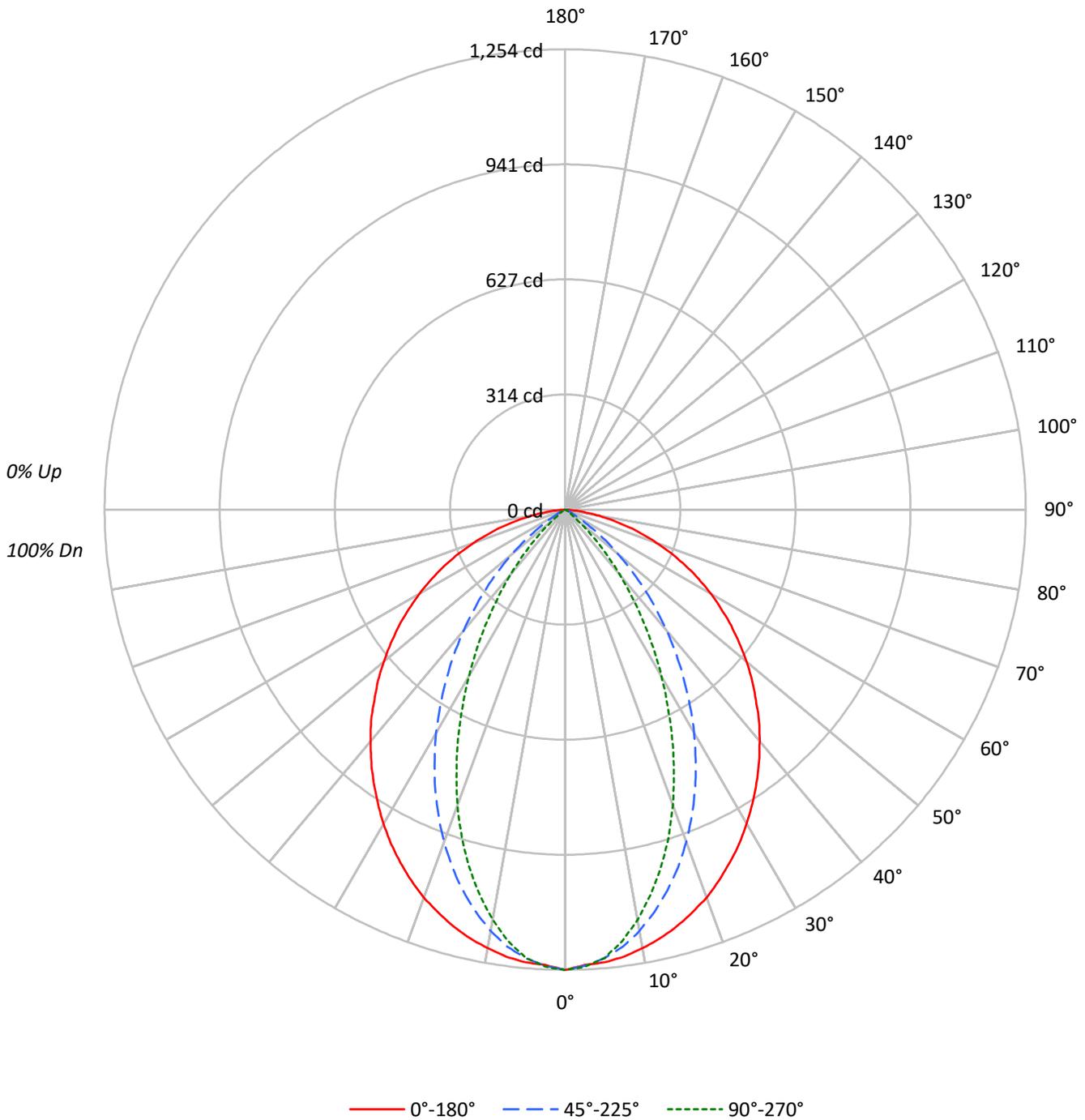
Lumens per Lamp: N/A
Luminaire Lumens: 1752.9 lumens
Efficiency: N/A
Efficacy: 41.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.31' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 41.9
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64
5	84	74	66	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52
7	74	63	55	50	73	62	55	50	60	54	50	59	53	49	58	53	49	47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	39	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11089	11089	11089
5°	10989	10891	10880
10°	10895	10465	10189
15°	10760	9837	9229
20°	10586	9070	8063
25°	10351	8169	6729
30°	10093	7168	5348
35°	9808	6079	3982
40°	9508	4952	2653
45°	9179	3782	1460
50°	8862	2587	406
55°	8510	1403	265
60°	8088	435	152
65°	7563	282	77
70°	6835	127	31
75°	5879	41	0
80°	4445	0	0
85°	1867	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9179 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	6.6
10°-20°	303.8	17.3
20°-30°	392.5	22.4
30°-40°	375.2	21.4
40°-50°	280.6	16.0
50°-60°	167.0	9.5
60°-70°	84.8	4.8
70°-80°	29.5	1.7
80°-90°	4.0	0.2
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°	812.0	46.3
0°-40°	1187.1	67.7
0°-60°	1634.7	93.3
0°-90°	1752.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1752.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1254	1254	1254	1254	1254	
5°	1238	1248	1227	1221	1226	117
15°	1176	1151	1075	1024	1008	331
25°	1061	987	837	727	690	489
35°	909	783	563	419	369	568
45°	734	563	302	161	117	568
55°	552	343	91	21	17	493
65°	362	139	14	5	4	357
75°	172	18	1	1	0	183
85°	18	0	0	0	0	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1254.2	1254.2	1254.2	1254.2	1254.2
2.5°	1241.9	1256.6	1244.3	1245.6	1246.8
5°	1238.2	1248.0	1227.1	1221.0	1225.9
7.5°	1228.4	1232.1	1201.3	1185.3	1186.6
10°	1213.6	1209.9	1165.7	1138.6	1134.9
12.5°	1196.4	1184.1	1122.6	1083.3	1074.7
15°	1175.5	1150.9	1074.7	1024.3	1008.3
17.5°	1150.9	1115.2	1021.8	955.4	935.7
20°	1125.1	1075.9	964.0	881.6	857.0
22.5°	1094.3	1031.6	901.3	804.2	773.4
25°	1061.1	987.4	837.4	726.7	689.8
27.5°	1026.7	939.4	769.7	648.0	605.0
30°	988.6	889.0	702.1	568.1	523.8
32.5°	949.2	837.4	632.0	494.3	445.1
35°	908.7	783.3	563.2	419.3	368.9
37.5°	866.9	729.1	496.8	348.0	296.3
40°	823.8	673.8	429.1	280.3	229.9
42.5°	782.0	618.5	365.2	216.4	169.7
45°	734.1	563.2	302.5	161.1	116.8
47.5°	691.0	509.1	242.2	109.4	68.9
50°	644.3	451.3	188.1	63.9	29.5
52.5°	597.6	397.2	137.7	28.3	22.1
55°	552.1	343.1	91.0	20.9	17.2
57.5°	504.1	289.0	49.2	16.0	12.3
60°	457.4	236.1	24.6	12.3	8.6
62.5°	409.5	185.7	19.7	7.4	4.9
65°	361.5	138.9	13.5	4.9	3.7
67.5°	313.5	94.7	8.6	2.5	1.2
70°	264.4	57.8	4.9	1.2	1.2
72.5°	217.6	29.5	2.5	1.2	1.2
75°	172.1	18.4	1.2	1.2	0.0
77.5°	127.9	9.8	1.2	1.2	0.0
80°	87.3	3.7	0.0	0.0	0.0
82.5°	50.4	1.2	0.0	0.0	0.0
85°	18.4	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)