

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: P1060380

Luminaire Tested: S124RDR-S1195D950-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060380
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-73)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S1195D950-X4F0-XX-UDD-WVL-W
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

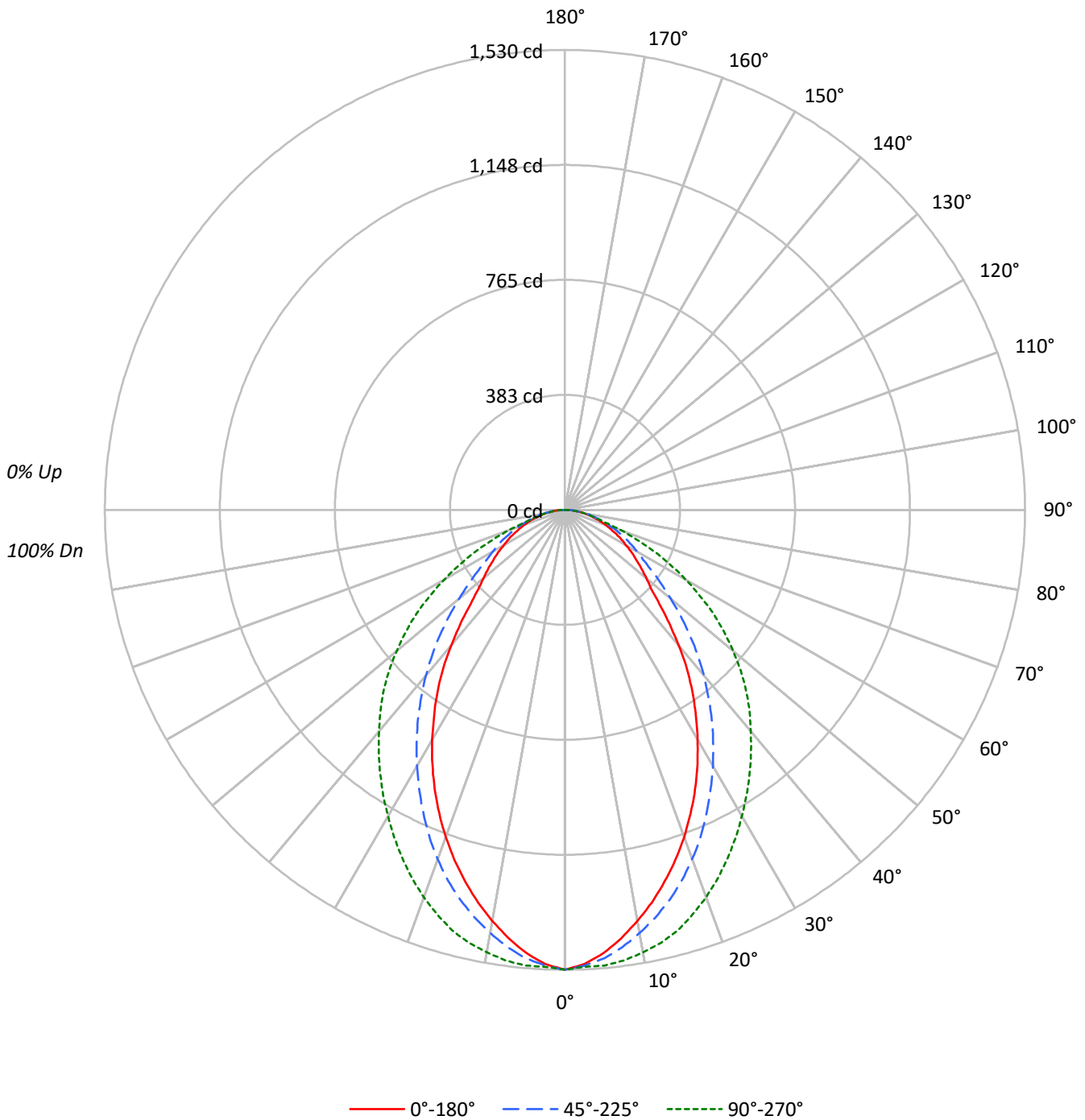
Lumens per Lamp: N/A
Luminaire Lumens: 2806.7 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.11
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33
10	58	45	38	33	56	45	38	33	44	37	33	43	37	32	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13172	13172	13172
5°	12789	12941	13151
10°	12144	12499	13067
15°	11416	11971	12911
20°	10618	11337	12565
25°	9736	10584	12153
30°	8775	9785	11696
35°	7770	8950	11255
40°	6604	8080	10804
45°	5407	7138	10385
50°	4733	6129	9774
55°	4349	5283	9044
60°	4033	4755	7972
65°	3778	4468	6675
70°	3545	4089	5010
75°	3334	3736	3646
80°	3089	3422	3089
85°	2806	3339	2678

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 10385 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.4	5.0
10°-20°	380.3	13.6
20°-30°	519.9	18.5
30°-40°	546.4	19.5
40°-50°	474.1	16.9
50°-60°	357.7	12.7
60°-70°	231.8	8.3
70°-80°	119.0	4.2
80°-90°	36.1	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°	1041.6	37.1
0°-40°	1588.0	56.6
0°-60°	2419.8	86.2
0°-90°	2806.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2806.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1530	1530	1530	1530	1530	
5°	1480	1500	1497	1509	1521	138
15°	1280	1312	1343	1404	1448	359
25°	1025	1061	1114	1199	1279	470
35°	739	780	851	965	1071	460
45°	444	486	586	732	853	350
55°	290	298	352	500	602	261
65°	185	190	219	265	328	185
75°	100	112	112	114	110	106
85°	28	35	34	32	27	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1529.6	1529.6	1529.6	1529.6	1529.6
2.5°	1512.0	1530.9	1517.4	1520.1	1521.4
5°	1479.5	1499.8	1497.1	1509.3	1521.4
7.5°	1437.5	1461.9	1467.3	1491.7	1512.0
10°	1388.8	1415.9	1429.4	1468.7	1494.4
12.5°	1337.4	1364.4	1388.8	1438.9	1475.4
15°	1280.5	1311.6	1342.8	1403.7	1448.3
17.5°	1220.9	1253.4	1292.7	1359.0	1411.8
20°	1158.7	1191.2	1237.2	1308.9	1371.2
22.5°	1092.4	1128.9	1177.6	1254.8	1327.9
25°	1024.7	1061.2	1114.0	1199.3	1279.1
27.5°	954.3	992.2	1049.0	1143.8	1229.1
30°	882.5	923.2	984.1	1084.2	1176.3
32.5°	809.5	852.8	917.7	1024.7	1124.8
35°	739.1	779.7	851.4	965.1	1070.7
37.5°	666.0	706.6	783.7	906.9	1016.6
40°	587.5	632.1	718.8	846.0	961.1
42.5°	514.4	559.0	652.4	787.8	908.3
45°	444.0	485.9	586.1	732.3	852.8
47.5°	389.8	419.6	519.8	678.2	793.2
50°	353.3	366.8	457.5	618.6	729.6
52.5°	320.8	331.6	400.7	559.0	667.3
55°	289.7	297.8	351.9	499.5	602.4
57.5°	262.6	266.7	308.6	439.9	532.0
60°	234.2	239.6	276.1	379.0	462.9
62.5°	211.2	213.9	247.7	320.8	393.9
65°	185.4	189.5	219.3	265.3	327.6
67.5°	162.4	169.2	189.5	216.6	258.5
70°	140.8	150.2	162.4	176.0	199.0
72.5°	120.5	131.3	138.1	143.5	139.4
75°	100.2	112.3	112.3	113.7	109.6
77.5°	81.2	92.0	90.7	89.3	83.9
80°	62.3	71.7	69.0	67.7	62.3
82.5°	46.0	52.8	50.1	48.7	42.0
85°	28.4	35.2	33.8	32.5	27.1
87.5°	13.5	20.3	19.0	17.6	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)