

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: P987729

Luminaire Tested: S122R3DR-B1005DB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P987729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122R3DR-B1005DB2750-4F0-XX-W2A-F_5000K
Description: Define 2 3in Regressed Direct Recessed with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115
Light Source: -
Ballast/Driver: -

Summary

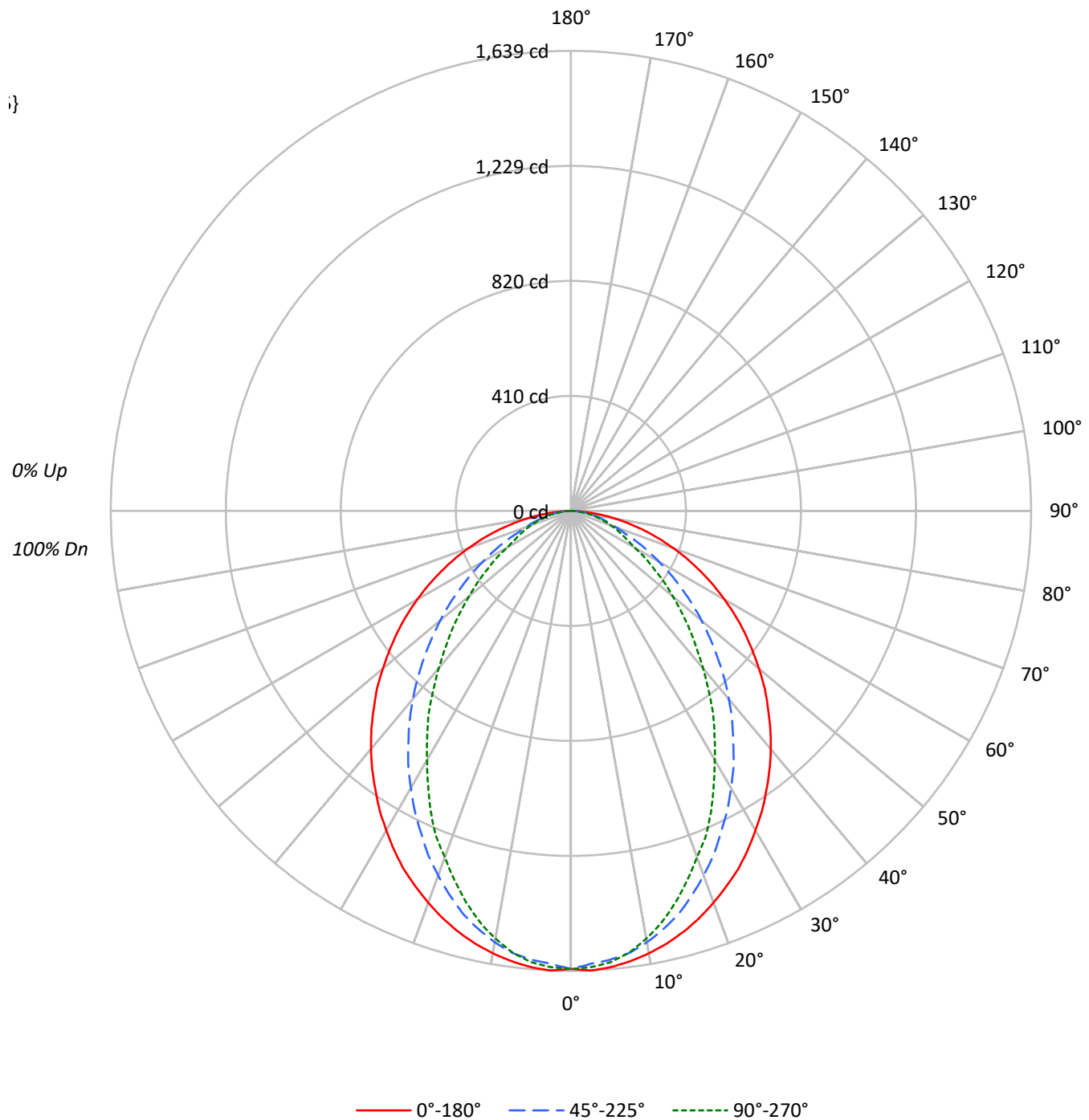
Lumens per Lamp: N/A
Luminaire Lumens: 3356.0 lumens
Efficiency: N/A
Efficacy: 54.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 61.3
Input Voltage (V):
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: P987729

CATALOG NUMBER: S122R3DR-B1005DB2750-4F0-XX-W2A-F_5000K

Luminous Intensity Polar Plot





TEST NUMBER: P987729

CATALOG NUMBER: S122R3DR-B1005DB2750-4F0-XX-W2A-F_5000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20
RC	80					70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86			
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64			
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	57	55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49			
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43			
7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39			
8	64	51	43	38	62	51	43	37	49	42	37	48	42	37	47	41	37	35			
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	44	38	34	32			
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25830	25830	25830
5°	25929	25506	25648
10°	25730	25089	24875
15°	25435	24346	23644
20°	25025	23283	22114
25°	24606	22078	20634
30°	24023	20837	18733
35°	23457	19490	17065
40°	22887	18095	15136
45°	22216	16530	13389
50°	21528	14946	11673
55°	20825	13244	10026
60°	20008	11454	8323
65°	19083	9626	7577
70°	17976	7928	6970
75°	16617	7223	6501
80°	14676	6463	5925
85°	11533	5104	5104

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 22216 cd/sqm

TEST NUMBER: P987729

CATALOG NUMBER: S122R3DR-B1005DB2750-4F0-XX-W2A-F_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.9	4.6
10°-20°	419.8	12.5
20°-30°	589.4	17.6
30°-40°	642.5	19.1
40°-50°	590.5	17.6
50°-60°	463.8	13.8
60°-70°	301.9	9.0
70°-80°	155.4	4.6
80°-90°	39.7	1.2
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°	1162.2	34.6
0°-40°	1804.7	53.8
0°-60°	2859.0	85.2
0°-90°	3356.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3356.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1632	1632	1632	1632	1632	
5°	1632	1624	1605	1618	1614	155
15°	1552	1536	1486	1458	1443	437
25°	1409	1362	1264	1204	1181	648
35°	1214	1139	1009	916	883	760
45°	992	893	738	634	598	766
55°	755	639	480	391	363	674
65°	510	390	257	207	202	505
75°	272	168	118	108	106	287
85°	64	32	28	28	28	76
90°	0	0	0	0	0	

TEST NUMBER: P987729

CATALOG NUMBER: S122R3DR-B1005DB2750-4F0-XX-W2A-F_5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1631.8	1631.8	1631.8	1631.8	1631.8
2.5°	1639.2	1631.8	1615.6	1630.3	1627.4
5°	1631.8	1624.4	1605.2	1618.5	1614.1
7.5°	1618.5	1609.6	1589.0	1594.9	1587.5
10°	1600.8	1590.4	1560.9	1556.5	1547.6
12.5°	1578.6	1565.3	1525.5	1516.6	1500.4
15°	1552.1	1535.8	1485.6	1457.5	1442.8
17.5°	1521.0	1497.4	1435.4	1402.9	1379.3
20°	1485.6	1456.1	1382.2	1345.3	1312.8
22.5°	1447.2	1413.2	1327.6	1277.4	1255.2
25°	1408.8	1361.6	1264.1	1203.5	1181.4
27.5°	1363.0	1312.8	1205.0	1135.6	1101.6
30°	1314.3	1258.2	1140.0	1064.7	1024.9
32.5°	1267.0	1199.1	1078.0	989.4	952.5
35°	1213.9	1138.6	1008.6	915.6	883.1
37.5°	1162.2	1081.0	943.6	841.7	804.8
40°	1107.6	1019.0	875.7	770.9	732.5
42.5°	1051.4	956.9	807.8	698.5	661.6
45°	992.4	893.4	738.4	633.5	598.1
47.5°	936.3	831.4	671.9	567.1	534.6
50°	874.2	769.4	606.9	505.0	474.0
52.5°	813.7	702.9	544.9	447.5	419.4
55°	754.6	639.4	479.9	391.3	363.3
57.5°	694.1	575.9	422.3	339.7	316.0
60°	632.0	513.9	361.8	286.5	262.9
62.5°	571.5	453.4	310.1	239.2	227.4
65°	509.5	389.9	257.0	206.7	202.3
67.5°	450.4	330.8	206.7	181.6	177.2
70°	388.4	273.2	171.3	156.5	150.6
72.5°	329.3	220.0	143.2	131.4	128.5
75°	271.7	168.3	118.1	107.8	106.3
77.5°	214.1	119.6	93.0	87.1	84.2
80°	161.0	85.7	70.9	65.0	65.0
82.5°	112.2	57.6	48.7	45.8	45.8
85°	63.5	32.5	28.1	28.1	28.1
87.5°	23.6	11.8	11.8	10.3	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)