

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: P996455

Luminaire Tested: S124DRP-B1020DB30-4F0-XX-W2A-D

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P996455
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DRP-B1020DB30-4F0-XX-W2A-D
Description: Define 4 Direct Perimeter with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

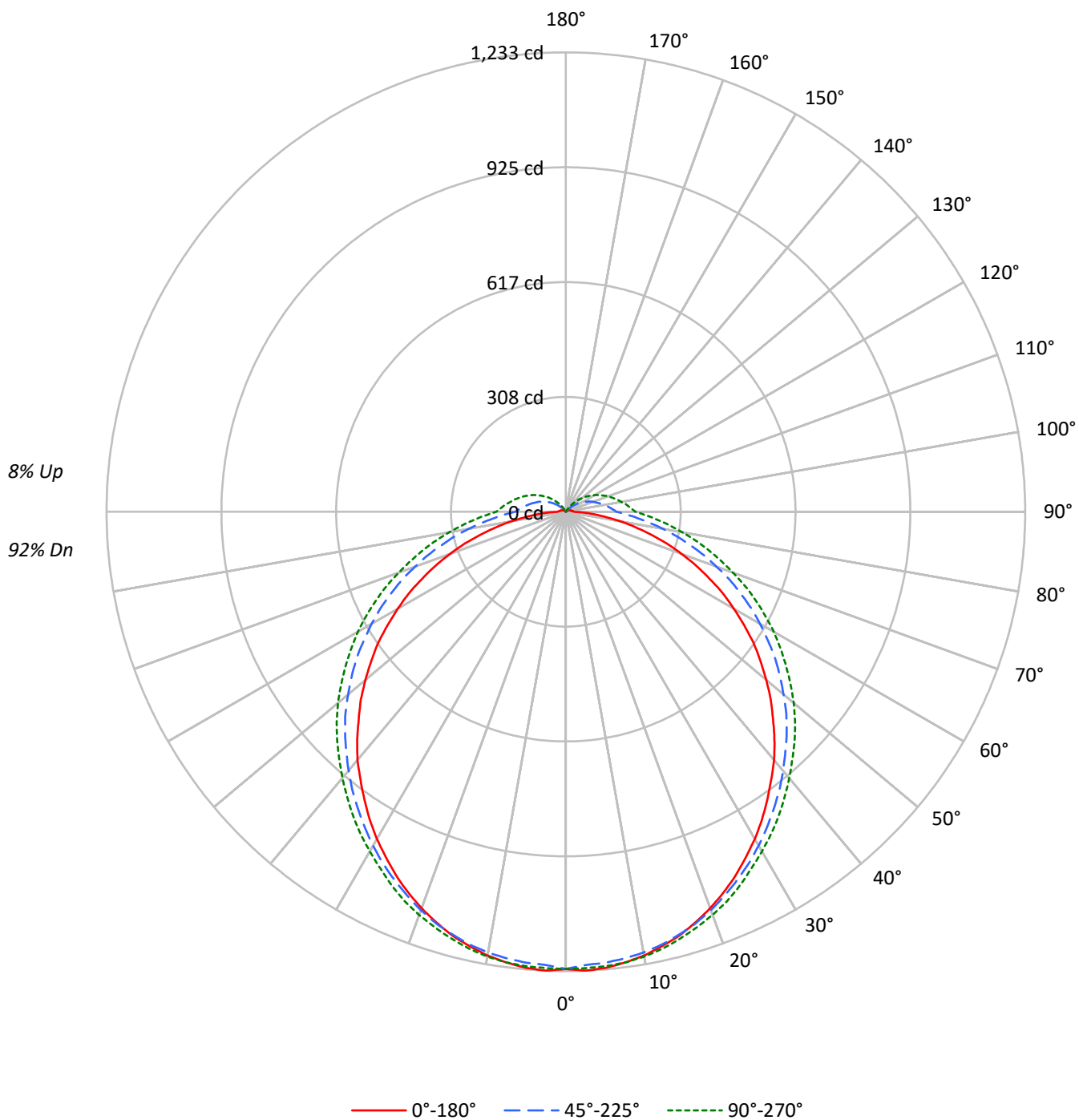
Lumens per Lamp: N/A
Luminaire Lumens: 4184.0 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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: P996455

CATALOG NUMBER: S124DRP-B1020DB30-4F0-XX-W2A-D

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95
1	105	100	95	91	102	97	93	89	91	88	84	86	83	80	81	79	77
2	95	86	79	73	92	84	77	71	79	73	68	74	70	66	70	67	63
3	87	75	67	60	83	73	65	59	69	62	57	65	60	55	62	57	53
4	79	66	57	50	76	65	56	49	61	54	48	58	52	47	55	49	45
5	73	59	50	43	70	58	49	42	55	47	41	52	45	40	49	44	39
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	45	39	34
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30
8	58	44	35	29	56	43	35	29	41	33	28	39	32	28	37	31	27
9	54	40	32	26	52	39	31	26	38	30	25	36	29	25	34	29	24
10	50	37	29	24	49	36	29	23	35	28	23	33	27	23	32	26	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10007	10007	10007
5°	10057	9944	10022
10°	10013	9945	10037
15°	9942	9920	10012
20°	9827	9874	9993
25°	9694	9805	9954
30°	9550	9744	9912
35°	9384	9686	9918
40°	9260	9655	9933
45°	9065	9667	10016
50°	8908	9676	10129
55°	8753	9749	10257
60°	8494	9816	10511
65°	8220	9970	10846
70°	7897	10254	11370
75°	7448	10867	12470
80°	7035	12454	14905
85°	6811	18001	23147

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 40081 cd/sqm

TEST NUMBER: P996455

CATALOG NUMBER: S124DRP-B1020DB30-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.3	2.8
10°-20°	333.2	8.0
20°-30°	503.7	12.0
30°-40°	609.4	14.6
40°-50°	644.3	15.4
50°-60°	606.3	14.5
60°-70°	503.1	12.0
70°-80°	353.1	8.4
80°-90°	199.1	4.8
90°-100°	118.5	2.8
100°-110°	87.7	2.1
110°-120°	58.9	1.4
120°-130°	33.2	0.8
130°-140°	14.3	0.3
140°-150°	2.8	0.1
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	953.2	22.8
0°-40°	1562.6	37.3
0°-60°	2813.2	67.2
0°-90°	3868.5	92.5
90°-120°	265.1	6.3
90°-150°	315.5	7.5
90°-180°	315.0	7.5
0°-180°	4184.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1227	1227	1227	1227	1227	
5°	1229	1224	1215	1226	1224	117
15°	1178	1179	1175	1187	1186	332
25°	1077	1086	1090	1105	1106	496
35°	943	959	973	992	996	590
45°	786	812	838	862	868	608
55°	616	644	686	713	722	549
65°	426	470	517	551	562	422
75°	236	287	345	383	396	251
85°	73	131	192	234	247	76
90°	22	77	136	176	187	15
95°	18	63	120	157	169	14
105°	12	40	91	125	136	14
115°	8	21	65	95	104	9
125°	6	4	38	65	73	5
135°	3	3	12	34	43	3
145°	1	0	0	8	14	1
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

TEST NUMBER: P996455

CATALOG NUMBER: S124DRP-B1020DB30-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1227.2	1227.2	1227.2	1227.2	1227.2
2.5°	1232.7	1228.6	1217.6	1227.2	1225.8
5°	1228.6	1224.4	1214.8	1225.8	1224.4
7.5°	1220.3	1217.6	1209.3	1221.7	1220.3
10°	1209.3	1208.0	1201.1	1213.4	1212.1
12.5°	1194.2	1194.2	1190.1	1201.1	1201.1
15°	1177.7	1179.1	1175.0	1187.3	1186.0
17.5°	1155.7	1159.9	1158.5	1170.8	1169.5
20°	1132.4	1136.5	1137.9	1151.6	1151.6
22.5°	1106.3	1111.8	1114.5	1128.2	1131.0
25°	1077.4	1085.6	1089.8	1104.9	1106.3
27.5°	1045.8	1058.2	1063.7	1077.4	1078.8
30°	1014.2	1025.2	1034.8	1049.9	1052.7
32.5°	979.8	993.6	1004.6	1022.4	1025.2
35°	942.7	959.2	973.0	992.2	996.3
37.5°	905.6	924.9	941.4	960.6	964.7
40°	869.9	887.8	907.0	927.6	933.1
42.5°	828.7	849.3	872.6	896.0	900.1
45°	786.1	812.2	838.3	861.6	868.5
47.5°	746.2	772.3	802.6	825.9	834.2
50°	702.2	732.5	762.7	790.2	798.4
52.5°	658.3	688.5	724.2	751.7	760.0
55°	615.7	644.5	685.7	713.2	721.5
57.5°	567.6	603.3	643.1	676.1	683.0
60°	520.8	556.6	601.9	633.5	644.5
62.5°	475.5	515.3	560.7	592.3	603.3
65°	426.0	470.0	516.7	551.1	562.1
67.5°	379.3	426.0	475.5	509.8	520.8
70°	331.2	377.9	430.1	467.2	476.9
72.5°	284.5	332.6	388.9	424.6	435.6
75°	236.4	287.2	344.9	383.4	395.8
77.5°	191.0	244.6	305.1	343.6	357.3
80°	149.8	204.8	265.2	306.5	317.4
82.5°	108.6	166.3	226.7	269.4	281.7
85°	72.8	130.6	192.4	233.6	247.4
87.5°	45.3	101.7	162.2	202.0	214.4
90°	22.0	77.0	136.0	175.9	186.9
92.5°	20.6	68.7	127.8	166.3	177.3
95°	17.9	63.2	119.6	156.7	169.0
97.5°	16.5	56.3	112.7	148.4	160.8
100°	15.1	50.8	104.4	141.5	151.2
102.5°	15.1	45.3	97.6	133.3	144.3
105°	12.4	39.9	90.7	125.1	136.0
107.5°	12.4	35.7	83.8	118.2	127.8
110°	11.0	30.2	78.3	109.9	120.9

TEST NUMBER: P996455

CATALOG NUMBER: S124DRP-B1020DB30-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9.6	26.1	71.5	101.7	112.7
115°	8.2	20.6	64.6	94.8	104.4
117.5°	8.2	16.5	57.7	86.6	97.6
120°	6.9	11.0	50.8	78.3	89.3
122.5°	6.9	6.9	44.0	71.5	81.1
125°	5.5	4.1	38.5	64.6	72.8
127.5°	5.5	4.1	31.6	56.3	66.0
130°	4.1	2.7	24.7	49.5	57.7
132.5°	4.1	2.7	19.2	42.6	50.8
135°	2.7	2.7	12.4	34.4	42.6
137.5°	2.7	1.4	6.9	27.5	34.4
140°	2.7	1.4	2.7	20.6	27.5
142.5°	1.4	1.4	0.0	15.1	20.6
145°	1.4	0.0	0.0	8.2	13.7
147.5°	1.4	0.0	0.0	1.4	6.9
150°	1.4	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)