

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: P999644

Luminaire Tested: SA2XXRDIP-B290D925UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999644
REPORT IS A COMBINATION OF REPORTS P988197 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B290D925UB30-4F0-XX-W2A-F
Description: Define 2 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

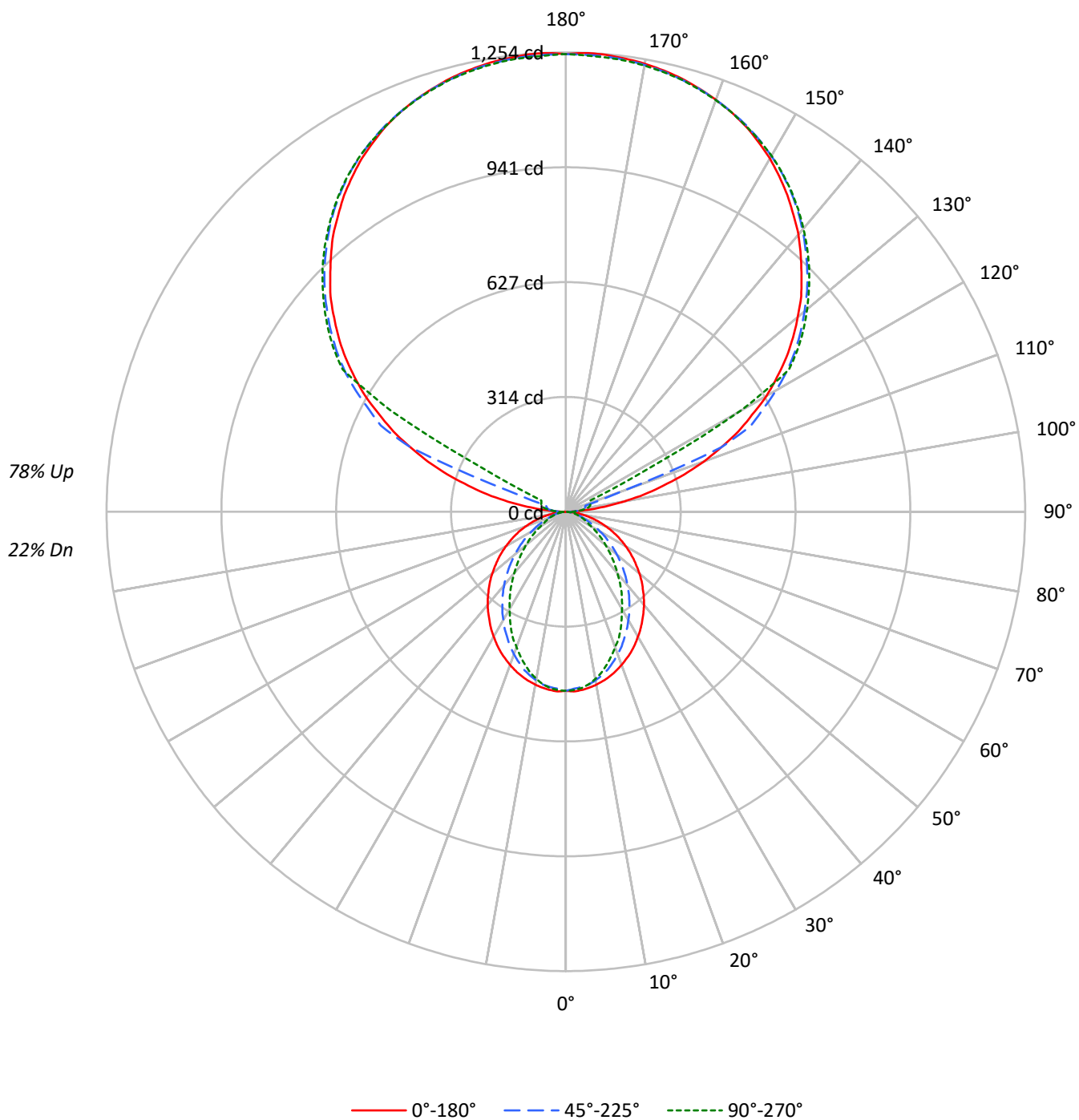
Lumens per Lamp: N/A
Luminaire Lumens: 4670.0 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
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: P999644

CATALOG NUMBER: SA2XXRDIP-B290D925UB30-4F0-XX-W2A-F

Luminous Intensity Polar Plot



TEST NUMBER: P999644

CATALOG NUMBER: SA2XXRDIP-B290D925UB30-4F0-XX-W2A-F

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	100	100	100	100	89	89	89	89	68	68	68	48	48	48	30	30	30
1	92	88	84	81	81	78	75	72	59	57	56	42	41	40	27	26	26
2	84	77	71	66	74	68	63	59	52	49	46	37	35	34	24	23	22
3	76	67	61	55	67	60	54	50	46	42	39	33	31	29	21	20	19
4	70	60	52	47	62	53	47	42	41	37	33	30	27	25	19	18	16
5	64	53	45	40	56	47	41	36	37	32	29	27	24	21	17	16	14
6	59	48	40	34	52	42	36	31	33	28	25	24	21	19	16	14	13
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	14	13	11
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	13	11	10
9	47	35	28	23	41	32	25	21	25	20	17	18	15	13	12	10	9
10	44	32	25	21	39	29	23	19	23	18	15	17	14	12	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7736	7736	7736
5°	7748	7359	7305
10°	7672	6979	6750
15°	7566	6532	6117
20°	7427	6022	5454
25°	7284	5499	4849
30°	7092	4991	4187
35°	6903	4477	3620
40°	6713	3973	3034
45°	6491	3452	2524
50°	6261	2952	2056
55°	6022	2449	1632
60°	5744	1958	1234
65°	5425	1492	1004
70°	5037	1083	798
75°	4554	827	609
80°	3848	559	410
85°	2684	256	198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6491 cd/sqm

TEST NUMBER: P999644

CATALOG NUMBER: SA2XXRDIP-B290D925UB30-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.8	1.0
10°-20°	125.7	2.7
20°-30°	176.5	3.8
30°-40°	192.4	4.1
40°-50°	176.8	3.8
50°-60°	138.9	3.0
60°-70°	90.4	1.9
70°-80°	46.5	1.0
80°-90°	14.1	0.3
90°-100°	41.2	0.9
100°-110°	153.6	3.3
110°-120°	407.3	8.7
120°-130°	675.6	14.5
130°-140°	717.6	15.4
140°-150°	666.9	14.3
150°-160°	536.2	11.5
160°-170°	345.5	7.4
170°-180°	118.9	2.5
0°-30°	348.0	7.5
0°-40°	540.4	11.6
0°-60°	856.2	18.3
0°-90°	1007.2	21.6
90°-120°	602.1	12.9
90°-150°	2662.2	57.0
90°-180°	3663.0	78.4
0°-180°	4670.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	489	489	489	489	489	
5°	489	486	481	485	483	46
15°	465	460	445	436	432	131
25°	422	408	378	360	354	194
35°	364	341	302	274	264	228
45°	297	268	221	190	179	230
55°	226	192	144	117	109	202
65°	153	117	77	62	61	151
75°	81	50	35	32	32	86
85°	19	10	8	8	8	22
90°	1	11	18	23	24	4
95°	59	29	35	40	39	70
105°	275	302	55	65	69	294
115°	520	535	558	139	74	512
125°	735	747	764	770	773	656
135°	910	924	932	941	939	703
145°	1055	1054	1070	1076	1071	660
155°	1162	1154	1164	1170	1163	535
165°	1224	1219	1221	1228	1221	346
175°	1252	1246	1248	1254	1245	119
180°	1249	1249	1249	1249	1249	

TEST NUMBER: P999644

CATALOG NUMBER: SA2XXRDIP-B290D925UB30-4F0-XX-W2A-F

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	488.7	488.7	488.7	488.7	488.7
2.5°	490.9	488.7	483.8	488.2	487.3
5°	488.7	486.5	480.7	484.7	483.4
7.5°	484.7	482.0	475.8	477.6	475.4
10°	479.4	476.3	467.4	466.1	463.5
12.5°	472.7	468.8	456.8	454.2	449.3
15°	464.8	459.9	444.9	436.5	432.1
17.5°	455.5	448.4	429.8	420.1	413.0
20°	444.9	436.0	413.9	402.9	393.1
22.5°	433.4	423.2	397.6	382.5	375.9
25°	421.9	407.7	378.5	360.4	353.8
27.5°	408.2	393.1	360.9	340.1	329.9
30°	393.6	376.8	341.4	318.8	306.9
32.5°	379.4	359.1	322.8	296.3	285.2
35°	363.5	341.0	302.0	274.2	264.5
37.5°	348.0	323.7	282.6	252.1	241.0
40°	331.7	305.1	262.2	230.8	219.3
42.5°	314.9	286.6	241.9	209.2	198.1
45°	297.2	267.5	221.1	189.7	179.1
47.5°	280.4	249.0	201.2	169.8	160.1
50°	261.8	230.4	181.8	151.2	142.0
52.5°	243.7	210.5	163.2	134.0	125.6
55°	226.0	191.5	143.7	117.2	108.8
57.5°	207.8	172.5	126.5	101.7	94.6
60°	189.3	153.9	108.3	85.8	78.7
62.5°	171.1	135.8	92.9	71.6	68.1
65°	152.6	116.7	76.9	61.9	60.6
67.5°	134.9	99.1	61.9	54.4	53.1
70°	116.3	81.8	51.3	46.9	45.1
72.5°	98.6	65.9	42.9	39.4	38.5
75°	81.4	50.4	35.4	32.3	31.8
77.5°	64.1	35.8	27.9	26.1	25.2
80°	48.2	25.6	21.2	19.5	19.5
82.5°	33.6	17.2	14.6	13.7	13.7
85°	19.0	9.7	8.4	8.4	8.4
87.5°	7.1	3.5	3.5	3.1	3.1
90°	0.9	10.8	18.1	22.6	24.4
92.5°	22.6	19.0	21.7	23.5	24.4
95°	58.8	28.9	35.3	39.8	38.9
97.5°	105.8	31.6	46.1	48.8	49.7
100°	160.0	36.2	51.5	58.8	60.6
102.5°	219.7	217.9	53.3	63.3	66.0
105°	274.8	302.0	55.1	65.1	68.7
107.5°	339.0	361.6	57.0	66.9	70.5
110°	400.5	419.5	158.2	67.8	71.4

TEST NUMBER: P999644

CATALOG NUMBER: SA2XXRDIP-B290D925UB30-4F0-XX-W2A-F

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	458.4	474.6	459.3	69.6	72.3
115°	519.8	535.2	557.8	139.2	74.1
117.5°	573.2	591.2	606.6	477.3	240.5
120°	632.8	646.4	662.7	673.5	551.5
122.5°	683.5	697.9	716.0	721.4	722.3
125°	735.0	746.7	763.9	770.3	773.0
127.5°	782.0	794.7	808.2	817.3	818.2
130°	826.3	840.8	850.7	860.7	859.8
132.5°	871.5	883.3	893.2	901.3	900.4
135°	909.5	923.9	932.1	941.1	939.3
137.5°	949.3	960.1	969.1	978.2	975.5
140°	988.1	995.4	1005.3	1013.4	1008.9
142.5°	1020.7	1027.0	1038.8	1046.0	1041.5
145°	1055.0	1054.1	1069.5	1075.8	1071.3
147.5°	1084.9	1082.2	1097.5	1102.0	1098.4
150°	1113.8	1107.5	1121.9	1127.4	1122.8
152.5°	1138.2	1131.0	1144.5	1150.0	1143.6
155°	1161.7	1153.6	1164.4	1169.8	1162.6
157.5°	1180.7	1173.5	1181.6	1187.9	1180.7
160°	1197.0	1191.5	1197.0	1202.4	1196.1
162.5°	1211.4	1206.0	1210.5	1216.9	1208.7
165°	1224.1	1218.7	1221.4	1227.7	1221.4
167.5°	1234.0	1228.6	1231.3	1237.6	1229.5
170°	1242.2	1236.7	1238.6	1244.9	1236.7
172.5°	1247.6	1242.2	1244.0	1250.3	1242.2
175°	1252.1	1245.8	1247.6	1253.9	1244.9
177.5°	1253.9	1247.6	1248.5	1254.8	1246.7
180°	1249.4	1249.4	1249.4	1249.4	1249.4

(END OF REPORT)