

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: P1000244

Luminaire Tested: SA2XXRDIP-B865D925UB35-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000244
REPORT IS A COMBINATION OF REPORTS P988804 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B865D925UB35-4F0-XX-W2A-F
Description: Define 2 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

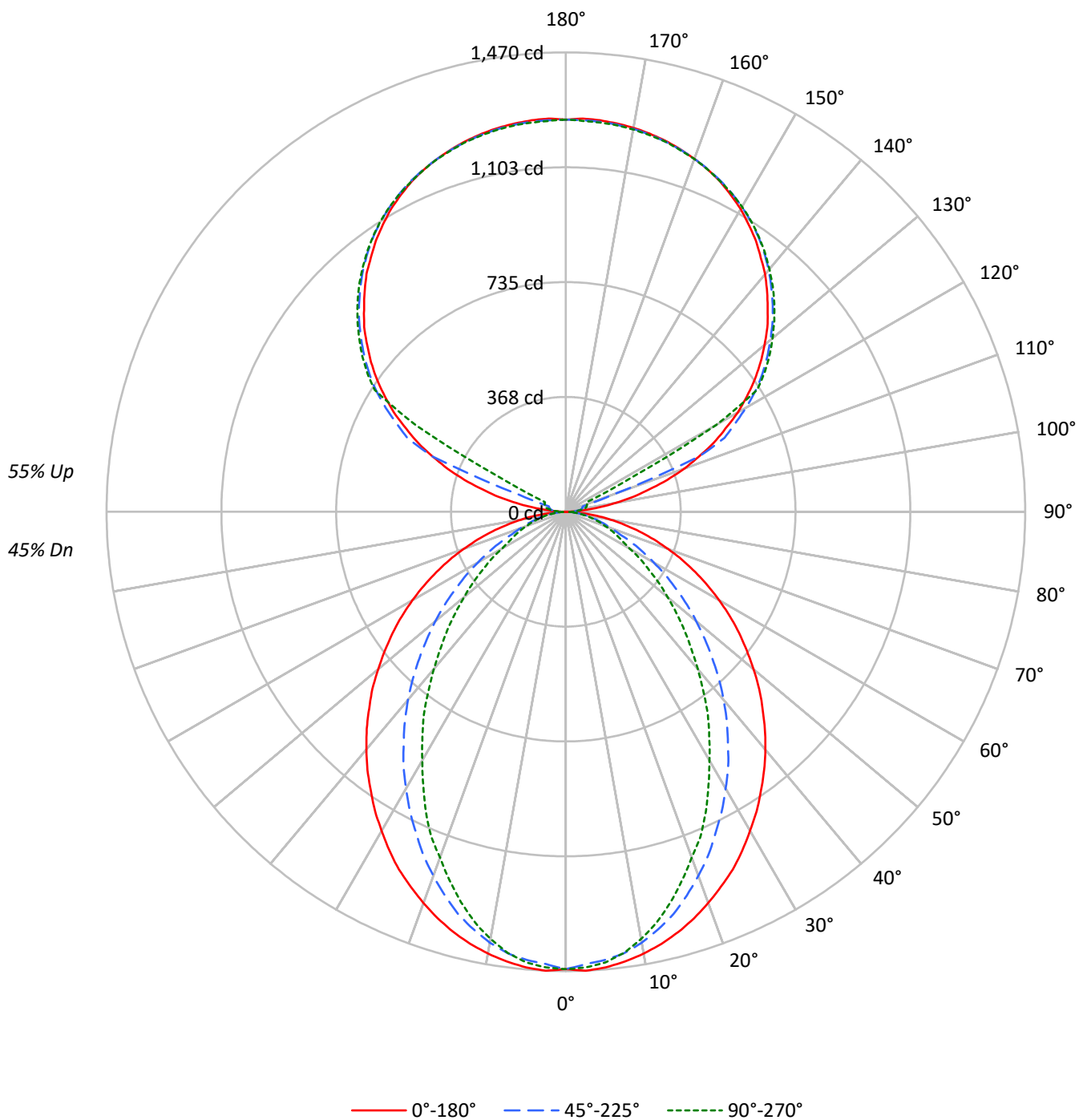
Lumens per Lamp: N/A
Luminaire Lumens: 6691.0 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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: P1000244

CATALOG NUMBER: SA2XXRDIP-B865D925UB35-4F0-XX-W2A-F

Luminous Intensity Polar Plot



TEST NUMBER: P1000244

CATALOG NUMBER: SA2XXRDIP-B865D925UB35-4F0-XX-W2A-F

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	106	106	106	106	97	97	97	97	81	81	81	65	65	65	52	52	52	45	45	45
1	97	93	89	86	89	85	82	79	71	69	67	58	57	55	46	45	44	39	39	39
2	89	82	76	71	81	75	70	66	63	59	56	52	49	47	41	40	38	33	33	33
3	81	72	65	60	74	67	60	56	56	51	48	46	43	40	37	35	33	29	29	29
4	75	64	57	51	68	59	53	47	50	45	41	41	38	35	33	31	29	25	25	25
5	69	57	49	44	63	53	46	41	45	40	36	37	33	30	30	27	25	22	22	22
6	63	52	44	38	58	48	41	36	41	35	31	34	30	27	28	25	22	20	20	20
7	59	47	39	34	54	43	36	32	37	32	28	31	27	24	25	22	20	17	17	17
8	54	42	35	30	50	39	33	28	34	28	25	28	24	21	23	20	18	16	16	16
9	51	39	32	27	47	36	30	25	31	26	22	26	22	19	22	19	16	14	14	14
10	47	36	29	24	44	33	27	23	29	24	20	24	20	18	20	17	15	13	13	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23168	23168	23168
5°	23205	22040	21878
10°	22975	20905	20215
15°	22660	19562	18318
20°	22242	18036	16337
25°	21815	16472	14523
30°	21240	14947	12542
35°	20676	13409	10840
40°	20106	11900	9088
45°	19440	10340	7560
50°	18751	8839	6156
55°	18034	7337	4886
60°	17202	5867	3698
65°	16243	4474	3006
70°	15084	3244	2390
75°	13633	2476	1826
80°	11529	1676	1226
85°	8052	768	593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19440 cd/sqm

TEST NUMBER: P1000244

CATALOG NUMBER: SA2XXRDIP-B865D925UB35-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	2.1
10°-20°	376.6	5.6
20°-30°	528.7	7.9
30°-40°	576.3	8.6
40°-50°	529.7	7.9
50°-60°	416.0	6.2
60°-70°	270.7	4.0
70°-80°	139.4	2.1
80°-90°	37.8	0.6
90°-100°	41.4	0.6
100°-110°	154.2	2.3
110°-120°	409.1	6.1
120°-130°	678.5	10.1
130°-140°	720.7	10.8
140°-150°	669.9	10.0
150°-160°	538.5	8.0
160°-170°	347.0	5.2
170°-180°	119.4	1.8
0°-30°	1042.4	15.6
0°-40°	1618.7	24.2
0°-60°	2564.3	38.3
0°-90°	3012.2	45.0
90°-120°	604.7	9.0
90°-150°	2673.8	40.0
90°-180°	3679.0	55.0
0°-180°	6691.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1464	1464	1464	1464	1464	
5°	1464	1457	1440	1452	1448	139
15°	1392	1378	1332	1307	1294	392
25°	1264	1221	1134	1080	1060	581
35°	1089	1021	905	821	792	681
45°	890	801	662	568	536	687
55°	677	574	430	351	326	605
65°	457	350	230	185	182	453
75°	244	151	106	97	95	258
85°	57	29	25	25	25	65
90°	1	11	18	23	24	6
95°	59	29	35	40	39	70
105°	276	303	55	65	69	295
115°	522	538	560	140	74	514
125°	738	750	767	774	776	658
135°	913	928	936	945	943	706
145°	1060	1059	1074	1080	1076	663
155°	1167	1159	1170	1175	1168	538
165°	1229	1224	1227	1233	1227	347
175°	1258	1251	1253	1259	1250	120
180°	1255	1255	1255	1255	1255	

TEST NUMBER: P1000244

CATALOG NUMBER: SA2XXRDIP-B865D925UB35-4F0-XX-W2A-F

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1463.6	1463.6	1463.6	1463.6	1463.6
2.5°	1470.2	1463.6	1449.0	1462.2	1459.6
5°	1463.6	1456.9	1439.7	1451.6	1447.7
7.5°	1451.6	1443.7	1425.2	1430.4	1423.8
10°	1435.7	1426.5	1400.0	1396.0	1388.1
12.5°	1415.9	1404.0	1368.2	1360.3	1345.7
15°	1392.0	1377.5	1332.4	1307.3	1294.0
17.5°	1364.2	1343.0	1287.4	1258.3	1237.1
20°	1332.4	1305.9	1239.7	1206.6	1177.5
22.5°	1298.0	1267.5	1190.7	1145.7	1125.8
25°	1263.6	1221.2	1133.8	1079.5	1059.6
27.5°	1222.5	1177.5	1080.8	1018.5	988.1
30°	1178.8	1128.5	1022.5	955.0	919.2
32.5°	1136.4	1075.5	966.9	887.4	854.3
35°	1088.7	1021.2	904.6	821.2	792.0
37.5°	1042.4	969.5	846.3	755.0	721.8
40°	993.4	913.9	785.4	691.4	656.9
42.5°	943.0	858.3	724.5	626.5	593.4
45°	890.1	801.3	662.2	568.2	536.4
47.5°	839.7	745.7	602.6	508.6	479.5
50°	784.1	690.1	544.4	453.0	425.2
52.5°	729.8	630.5	488.7	401.3	376.2
55°	676.8	573.5	430.5	351.0	325.8
57.5°	622.5	516.6	378.8	304.6	283.4
60°	566.9	460.9	324.5	257.0	235.8
62.5°	512.6	406.6	278.1	214.6	204.0
65°	456.9	349.7	230.5	185.4	181.5
67.5°	404.0	296.7	185.4	162.9	158.9
70°	348.3	245.0	153.6	140.4	135.1
72.5°	295.4	197.3	128.5	117.9	115.2
75°	243.7	151.0	106.0	96.7	95.4
77.5°	192.1	107.3	83.4	78.1	75.5
80°	144.4	76.8	63.6	58.3	58.3
82.5°	100.7	51.7	43.7	41.1	41.1
85°	57.0	29.1	25.2	25.2	25.2
87.5°	21.2	10.6	10.6	9.3	9.3
90°	0.9	10.9	18.2	22.7	24.5
92.5°	22.7	19.1	21.8	23.6	24.5
95°	59.0	29.1	35.4	40.0	39.0
97.5°	106.2	31.8	46.3	49.0	49.9
100°	160.7	36.3	51.8	59.0	60.8
102.5°	220.6	218.8	53.6	63.6	66.3
105°	276.0	303.3	55.4	65.4	69.0
107.5°	340.5	363.2	57.2	67.2	70.8
110°	402.2	421.3	158.9	68.1	71.7

TEST NUMBER: P1000244

CATALOG NUMBER: SA2XXRDIP-B865D925UB35-4F0-XX-W2A-F

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	460.4	476.7	461.3	69.9	72.6
115°	522.1	537.5	560.2	139.8	74.5
117.5°	575.7	593.8	609.3	479.4	241.5
120°	635.6	649.2	665.6	676.5	553.9
122.5°	686.4	701.0	719.1	724.6	725.5
125°	738.2	750.0	767.3	773.6	776.3
127.5°	785.4	798.1	811.8	820.8	821.7
130°	829.9	844.4	854.4	864.4	863.5
132.5°	875.3	887.1	897.1	905.3	904.4
135°	913.4	928.0	936.1	945.2	943.4
137.5°	953.4	964.3	973.4	982.5	979.7
140°	992.4	999.7	1009.7	1017.9	1013.3
142.5°	1025.1	1031.5	1043.3	1050.6	1046.0
145°	1059.6	1058.7	1074.2	1080.5	1076.0
147.5°	1089.6	1086.9	1102.3	1106.9	1103.2
150°	1118.7	1112.3	1126.8	1132.3	1127.7
152.5°	1143.2	1135.9	1149.5	1155.0	1148.6
155°	1166.8	1158.6	1169.5	1175.0	1167.7
157.5°	1185.8	1178.6	1186.8	1193.1	1185.8
160°	1202.2	1196.7	1202.2	1207.6	1201.3
162.5°	1216.7	1211.3	1215.8	1222.2	1214.0
165°	1229.4	1224.0	1226.7	1233.1	1226.7
167.5°	1239.4	1234.0	1236.7	1243.1	1234.9
170°	1247.6	1242.1	1244.0	1250.3	1242.1
172.5°	1253.0	1247.6	1249.4	1255.8	1247.6
175°	1257.6	1251.2	1253.0	1259.4	1250.3
177.5°	1259.4	1253.0	1253.9	1260.3	1252.1
180°	1254.9	1254.9	1254.9	1254.9	1254.9

(END OF REPORT)