

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: P1011901

Luminaire Tested: S123DIP-B775D1025UB27-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011901
REPORT IS A COMBINATION OF REPORTS P990225 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D1025UB27-4F0-XX-W2A-F
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

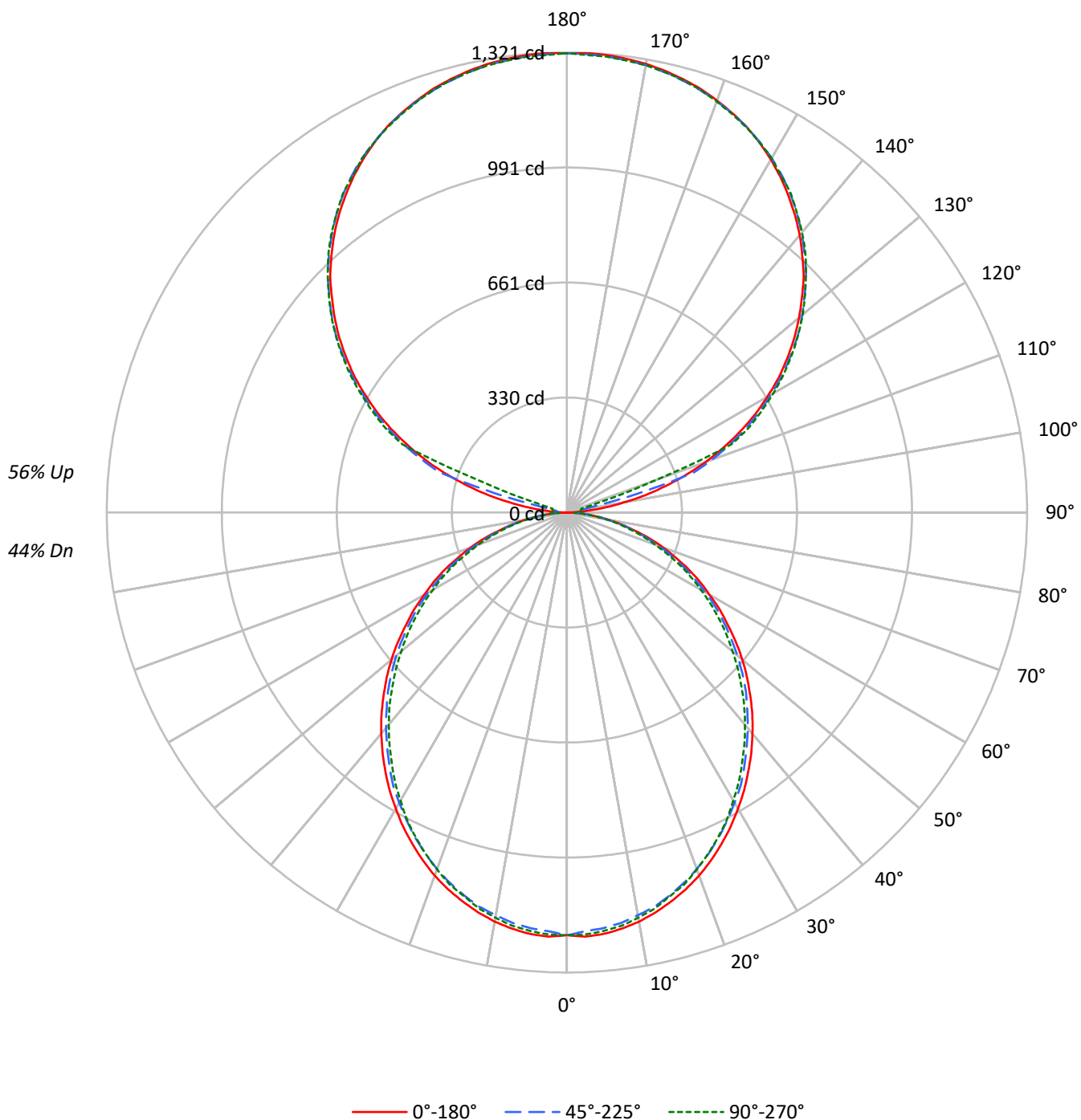
Lumens per Lamp: N/A
Luminaire Lumens: 7182.0 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
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: P1011901

CATALOG NUMBER: S123DIP-B775D1025UB27-4F0-XX-W2A-F

Luminous Intensity Polar Plot



TEST NUMBER: P1011901

CATALOG NUMBER: S123DIP-B775D1025UB27-4F0-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
RCR																	
0	106	106	106	106	97	97	97	97	80	80	80		65	65	65		51
1	96	92	88	85	88	84	81	78	70	68	66		57	55	54		45
2	88	80	74	69	80	74	68	64	61	57	54		50	47	45		39
3	80	71	63	58	73	65	59	53	54	49	46		44	41	38		35
4	73	62	55	49	67	57	51	45	48	43	39		39	35	32		31
5	67	56	48	42	61	51	44	39	43	37	33		35	31	28		28
6	62	50	42	36	56	46	39	34	39	33	29		32	28	25		25
7	57	45	37	31	52	41	34	29	35	30	26		29	25	22		23
8	53	41	33	28	48	38	31	26	32	26	23		26	22	19		21
9	49	37	30	25	45	34	28	23	29	24	20		24	20	17		20
10	46	34	27	22	42	32	25	21	27	22	18		22	18	16		18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13065	13065	13065
5°	13097	12615	12595
10°	12981	12187	12063
15°	12801	11744	11481
20°	12593	11250	10906
25°	12326	10730	10290
30°	12033	10192	9643
35°	11726	9642	9000
40°	11405	9065	8367
45°	11051	8502	7706
50°	10692	7875	7042
55°	10230	7222	6369
60°	9756	6501	5654
65°	9309	5723	4908
70°	8667	4858	4038
75°	7741	3846	3135
80°	6688	2702	2217
85°	5216	1454	1110

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11051 cd/sqm

TEST NUMBER: P1011901

CATALOG NUMBER: S123DIP-B775D1025UB27-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	1.6
10°-20°	323.1	4.5
20°-30°	477.2	6.6
30°-40°	557.3	7.8
40°-50°	560.3	7.8
50°-60°	492.2	6.9
60°-70°	366.6	5.1
70°-80°	208.6	2.9
80°-90°	61.9	0.9
90°-100°	46.5	0.6
100°-110°	224.8	3.1
110°-120°	551.0	7.7
120°-130°	699.5	9.7
130°-140°	747.2	10.4
140°-150°	698.7	9.7
150°-160°	563.6	7.8
160°-170°	363.7	5.1
170°-180°	125.3	1.7
0°-30°	914.7	12.7
0°-40°	1472.1	20.5
0°-60°	2524.5	35.2
0°-90°	3161.6	44.0
90°-120°	822.3	11.4
90°-150°	2967.7	41.3
90°-180°	4020.0	56.0
0°-180°	7182.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1214	1214	1214	1214	1214	
5°	1215	1210	1198	1209	1206	115
15°	1156	1152	1139	1147	1141	326
25°	1050	1044	1030	1031	1028	484
35°	908	902	888	882	877	568
45°	744	740	726	714	709	574
55°	565	564	550	538	533	506
65°	385	380	370	361	358	380
75°	204	199	196	191	188	217
85°	54	52	52	50	50	58
90°	1	11	24	27	29	7
95°	60	20	30	37	37	71
105°	292	303	215	41	43	310
115°	548	554	562	572	576	541
125°	772	780	784	786	788	690
135°	961	967	971	974	971	740
145°	1109	1116	1118	1120	1120	694
155°	1222	1220	1221	1226	1220	563
165°	1288	1286	1284	1292	1286	364
175°	1319	1314	1315	1322	1314	126
180°	1319	1319	1319	1319	1319	

TEST NUMBER: P1011901

CATALOG NUMBER: S123DIP-B775D1025UB27-4F0-XX-W2A-F

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1213.8	1213.8	1213.8	1213.8	1213.8
2.5°	1219.0	1214.8	1203.4	1213.8	1212.8
5°	1214.8	1209.6	1198.2	1208.6	1206.5
7.5°	1205.5	1200.2	1188.8	1198.2	1197.1
10°	1192.9	1187.7	1174.1	1183.5	1181.5
12.5°	1176.2	1172.1	1159.5	1165.8	1164.8
15°	1156.4	1152.2	1138.7	1147.0	1140.7
17.5°	1134.5	1129.3	1115.7	1122.0	1119.9
20°	1109.4	1103.2	1089.6	1093.8	1090.7
22.5°	1081.3	1075.0	1061.4	1064.6	1060.4
25°	1049.9	1043.7	1030.1	1031.2	1028.0
27.5°	1017.6	1011.3	996.7	997.8	994.6
30°	982.1	976.9	962.3	962.3	955.0
32.5°	946.6	939.3	928.9	921.6	918.4
35°	908.0	901.7	888.2	881.9	876.7
37.5°	869.4	861.0	847.5	840.2	837.0
40°	828.7	822.4	807.8	799.5	795.3
42.5°	788.0	780.7	766.1	757.7	753.5
45°	744.1	740.0	726.4	713.9	708.7
47.5°	701.4	695.1	682.6	670.0	665.9
50°	657.5	652.3	638.7	627.3	621.0
52.5°	611.6	608.5	593.9	584.5	578.2
55°	564.6	563.6	550.0	538.5	533.3
57.5°	520.8	516.6	506.2	495.8	489.5
60°	472.8	471.7	459.2	449.8	444.6
62.5°	430.0	426.9	414.3	404.9	401.8
65°	385.1	379.9	369.5	361.1	358.0
67.5°	337.1	332.9	324.6	317.3	313.1
70°	294.3	288.1	281.8	274.5	269.3
72.5°	249.4	245.3	238.0	231.7	229.6
75°	203.5	199.3	196.2	191.0	187.9
77.5°	162.8	160.7	156.6	152.4	152.4
80°	123.2	120.0	117.9	116.9	116.9
82.5°	84.5	84.5	84.5	82.5	81.4
85°	54.3	52.2	52.2	50.1	50.1
87.5°	27.1	24.0	23.0	21.9	21.9
90°	1.0	10.8	23.5	27.4	29.4
92.5°	22.5	16.7	25.5	32.3	33.3
95°	59.8	19.6	30.4	37.2	37.2
97.5°	108.8	81.3	31.4	39.2	40.2
100°	165.6	185.2	32.3	40.2	41.2
102.5°	230.2	243.0	72.5	40.2	42.1
105°	292.0	302.7	214.6	41.2	43.1
107.5°	357.6	366.4	381.1	230.2	101.9
110°	423.3	431.1	441.9	409.5	269.4

TEST NUMBER: P1011901

CATALOG NUMBER: S123DIP-B775D1025UB27-4F0-XX-W2A-F

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	486.0	492.8	503.6	512.4	510.5
115°	547.7	553.6	562.4	572.2	576.1
117.5°	608.4	615.3	620.2	628.0	629.0
120°	664.3	673.1	676.0	683.9	683.9
122.5°	721.1	728.0	731.9	736.8	737.8
125°	772.1	779.9	783.8	785.8	787.7
127.5°	823.0	830.8	835.7	838.7	836.7
130°	870.0	877.9	881.8	885.7	883.7
132.5°	915.1	922.9	925.9	929.8	926.9
135°	961.2	967.0	970.9	973.9	970.9
137.5°	1000.3	1008.2	1010.1	1015.0	1013.1
140°	1039.5	1045.4	1048.3	1052.3	1050.3
142.5°	1075.8	1081.7	1084.6	1087.5	1084.6
145°	1109.1	1116.0	1117.9	1119.9	1119.9
147.5°	1141.4	1146.3	1148.3	1150.2	1145.3
150°	1170.8	1173.8	1175.7	1177.7	1174.7
152.5°	1197.3	1198.3	1199.2	1203.2	1198.3
155°	1221.8	1219.8	1220.8	1225.7	1219.8
157.5°	1241.4	1241.4	1240.4	1246.3	1238.4
160°	1259.0	1258.0	1257.0	1262.9	1256.1
162.5°	1275.7	1272.7	1271.7	1278.6	1272.7
165°	1288.4	1285.5	1284.5	1292.3	1285.5
167.5°	1299.2	1295.3	1295.3	1303.1	1295.3
170°	1308.0	1304.1	1304.1	1311.9	1304.1
172.5°	1313.9	1309.0	1309.9	1317.8	1309.0
175°	1318.8	1313.9	1314.8	1321.7	1313.9
177.5°	1320.7	1315.8	1316.8	1324.6	1314.8
180°	1318.8	1318.8	1318.8	1318.8	1318.8

(END OF REPORT)