

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: P1010976

Luminaire Tested: S123RDIP-B775D1025UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010976
REPORT IS A COMBINATION OF REPORTS P993532 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B775D1025UB2750-4F0-XX-W2A-F_3500K
Description: Define 3 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

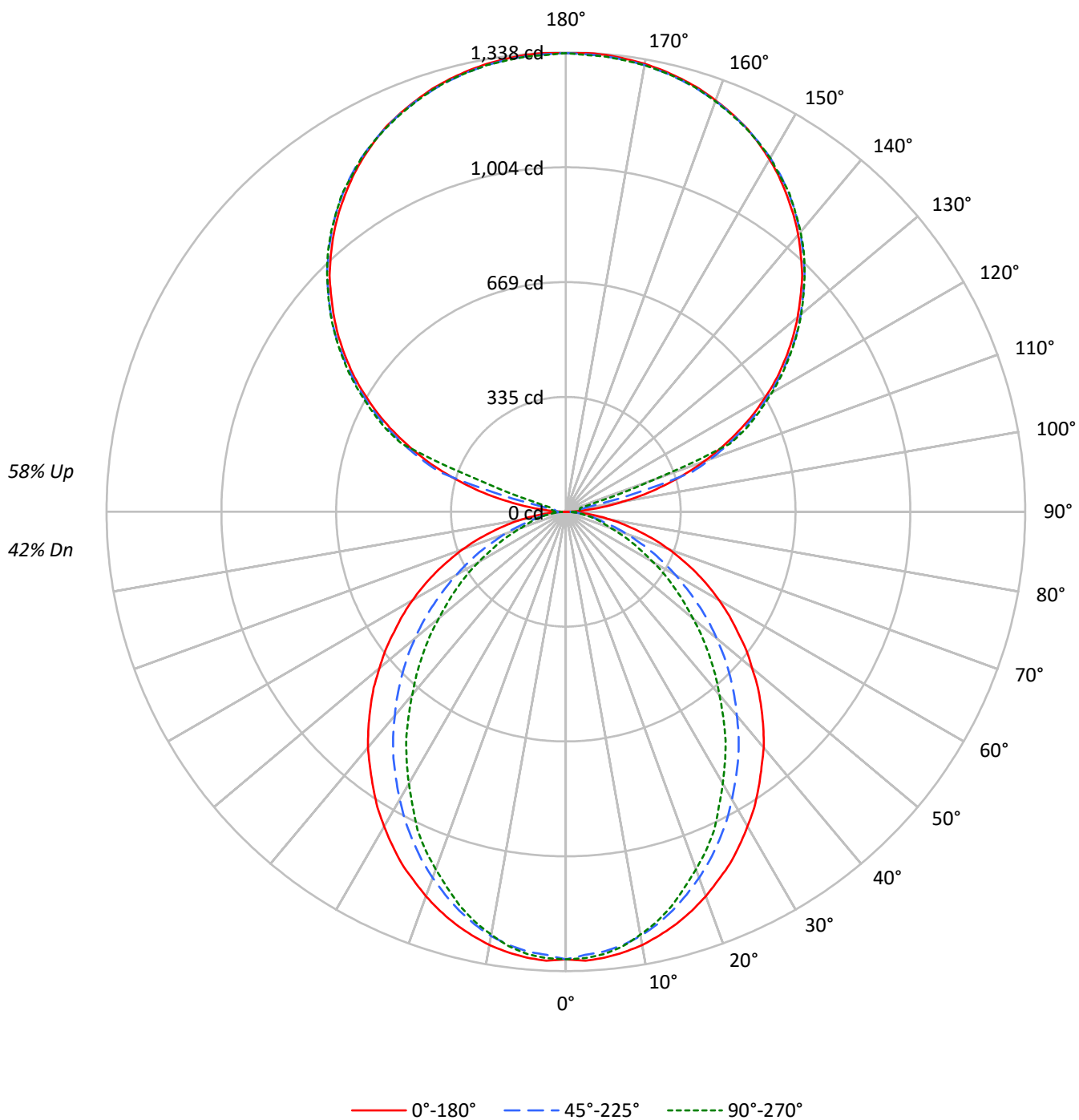
Lumens per Lamp: N/A
Luminaire Lumens: 7020.0 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49
1	96	92	88	85	88	84	81	78	70	67	65	56	54	53	44	43	42
2	88	81	75	70	80	74	69	65	61	58	54	49	47	45	39	37	36
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	34	32	31
4	74	63	55	50	67	58	51	46	48	43	39	39	36	33	31	29	26
5	68	56	48	43	61	52	45	40	43	38	34	35	32	29	28	25	23
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	25	23	21
7	58	46	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18
8	53	41	34	29	49	38	32	27	32	27	23	27	23	20	21	19	16
9	50	38	30	26	45	35	28	24	30	25	21	25	21	18	20	17	15
10	46	35	28	23	42	32	26	22	27	22	19	23	19	16	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14032	14032	14032
5°	14055	13535	13499
10°	13944	13026	12769
15°	13763	12397	11971
20°	13525	11713	11079
25°	13280	11002	10233
30°	12967	10246	9234
35°	12643	9503	8324
40°	12338	8697	7319
45°	11949	7908	6414
50°	11518	7065	5479
55°	11073	6164	4621
60°	10645	5239	3752
65°	10095	4290	2928
70°	9403	3244	2093
75°	8407	2197	1658
80°	7177	1527	1163
85°	5379	824	610

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11949 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.5	1.7
10°-20°	340.9	4.9
20°-30°	490.8	7.0
30°-40°	552.8	7.9
40°-50°	528.7	7.5
50°-60°	432.8	6.2
60°-70°	291.8	4.2
70°-80°	146.4	2.1
80°-90°	40.9	0.6
90°-100°	47.1	0.7
100°-110°	227.8	3.2
110°-120°	558.1	8.0
120°-130°	708.5	10.1
130°-140°	756.9	10.8
140°-150°	707.8	10.1
150°-160°	570.9	8.1
160°-170°	368.4	5.2
170°-180°	127.0	1.8
0°-30°	954.3	13.6
0°-40°	1507.0	21.5
0°-60°	2468.6	35.2
0°-90°	2947.7	42.0
90°-120°	833.0	11.9
90°-150°	3006.1	42.8
90°-180°	4072.0	58.0
0°-180°	7020.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1304	1304	1304	1304	1304	
5°	1304	1298	1286	1295	1293	124
15°	1243	1232	1202	1197	1189	350
25°	1131	1105	1056	1034	1022	520
35°	979	941	875	830	811	613
45°	805	757	676	615	590	621
55°	611	559	469	408	387	548
65°	418	360	277	225	214	413
75°	221	170	112	102	99	235
85°	56	33	30	28	28	61
90°	1	11	24	28	30	7
95°	60	20	31	38	38	72
105°	296	307	217	42	44	314
115°	555	561	570	580	584	548
125°	782	790	794	796	798	699
135°	974	980	984	986	984	750
145°	1123	1130	1132	1134	1134	703
155°	1238	1236	1237	1242	1236	570
165°	1305	1302	1301	1309	1302	369
175°	1336	1331	1332	1339	1331	127
180°	1336	1336	1336	1336	1336	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1303.6	1303.6	1303.6	1303.6	1303.6
2.5°	1308.9	1304.6	1291.9	1303.6	1301.5
5°	1303.6	1298.3	1285.6	1295.1	1293.0
7.5°	1294.1	1288.8	1272.9	1279.3	1276.1
10°	1281.4	1274.0	1254.9	1256.0	1250.7
12.5°	1263.4	1254.9	1230.6	1229.6	1223.2
15°	1243.3	1231.7	1202.1	1196.8	1189.4
17.5°	1219.0	1206.3	1169.3	1158.7	1148.2
20°	1191.5	1174.6	1134.4	1120.7	1108.0
22.5°	1160.8	1140.8	1097.4	1079.4	1067.8
25°	1131.2	1104.8	1056.2	1034.0	1022.3
27.5°	1095.3	1066.8	1013.9	984.3	966.3
30°	1058.3	1026.6	967.4	931.4	914.5
32.5°	1021.3	984.3	920.9	880.7	862.7
35°	979.0	940.9	875.4	829.9	810.9
37.5°	936.7	895.5	826.8	776.0	752.8
40°	896.5	850.0	775.0	720.0	695.7
42.5°	851.1	804.6	726.3	665.0	643.9
45°	804.6	757.0	675.6	615.3	589.9
47.5°	759.1	706.2	625.9	560.3	538.1
50°	708.3	658.7	573.0	507.5	483.2
52.5°	662.9	607.9	523.3	454.6	433.5
55°	611.1	559.3	469.4	408.1	386.9
57.5°	564.6	508.5	417.6	359.5	341.5
60°	515.9	457.8	370.0	312.9	295.0
62.5°	467.3	409.2	321.4	268.5	249.5
65°	417.6	359.5	277.0	225.2	213.6
67.5°	367.9	308.7	228.4	189.2	176.6
70°	319.3	262.2	188.2	151.2	139.6
72.5°	270.7	214.6	149.1	120.5	117.4
75°	221.0	170.2	112.1	101.5	99.4
77.5°	175.5	129.0	87.8	81.4	79.3
80°	132.2	88.8	66.6	63.4	61.3
82.5°	90.9	55.0	47.6	44.4	44.4
85°	56.0	32.8	29.6	27.5	27.5
87.5°	25.4	13.7	13.7	12.7	11.6
90°	1.0	10.9	23.8	27.8	29.8
92.5°	22.8	16.9	25.8	32.8	33.7
95°	60.5	19.8	30.8	37.7	37.7
97.5°	110.2	82.4	31.8	39.7	40.7
100°	167.7	187.6	32.8	40.7	41.7
102.5°	233.2	246.1	73.4	40.7	42.7
105°	295.7	306.7	217.3	41.7	43.7
107.5°	362.2	371.2	386.1	233.2	103.2
110°	428.7	436.7	447.6	414.8	272.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	492.2	499.2	510.1	519.0	517.1
115°	554.8	560.7	569.7	579.6	583.5
117.5°	616.3	623.2	628.2	636.1	637.1
120°	672.9	681.8	684.8	692.7	692.7
122.5°	730.4	737.4	741.3	746.3	747.3
125°	782.0	790.0	793.9	795.9	797.9
127.5°	833.6	841.6	846.5	849.5	847.5
130°	881.3	889.2	893.2	897.2	895.2
132.5°	926.9	934.9	937.8	941.8	938.8
135°	973.6	979.5	983.5	986.5	983.5
137.5°	1013.3	1021.2	1023.2	1028.2	1026.2
140°	1053.0	1058.9	1061.9	1065.9	1063.9
142.5°	1089.7	1095.6	1098.6	1101.6	1098.6
145°	1123.4	1130.4	1132.4	1134.3	1134.3
147.5°	1156.2	1161.1	1163.1	1165.1	1160.2
150°	1186.0	1188.9	1190.9	1192.9	1189.9
152.5°	1212.7	1213.7	1214.7	1218.7	1213.7
155°	1237.6	1235.6	1236.6	1241.5	1235.6
157.5°	1257.4	1257.4	1256.4	1262.4	1254.4
160°	1275.3	1274.3	1273.3	1279.2	1272.3
162.5°	1292.1	1289.2	1288.2	1295.1	1289.2
165°	1305.0	1302.1	1301.1	1309.0	1302.1
167.5°	1316.0	1312.0	1312.0	1319.9	1312.0
170°	1324.9	1320.9	1320.9	1328.9	1320.9
172.5°	1330.8	1325.9	1326.9	1334.8	1325.9
175°	1335.8	1330.8	1331.8	1338.8	1330.8
177.5°	1337.8	1332.8	1333.8	1341.8	1331.8
180°	1335.8	1335.8	1335.8	1335.8	1335.8

(END OF REPORT)