

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: P1010984

Luminaire Tested: S123RDIP-B775D1195UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010984
REPORT IS A COMBINATION OF REPORTS P993570 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B775D1195UB2750-4F0-XX-W2A-F_2700K
Description: Define 3 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

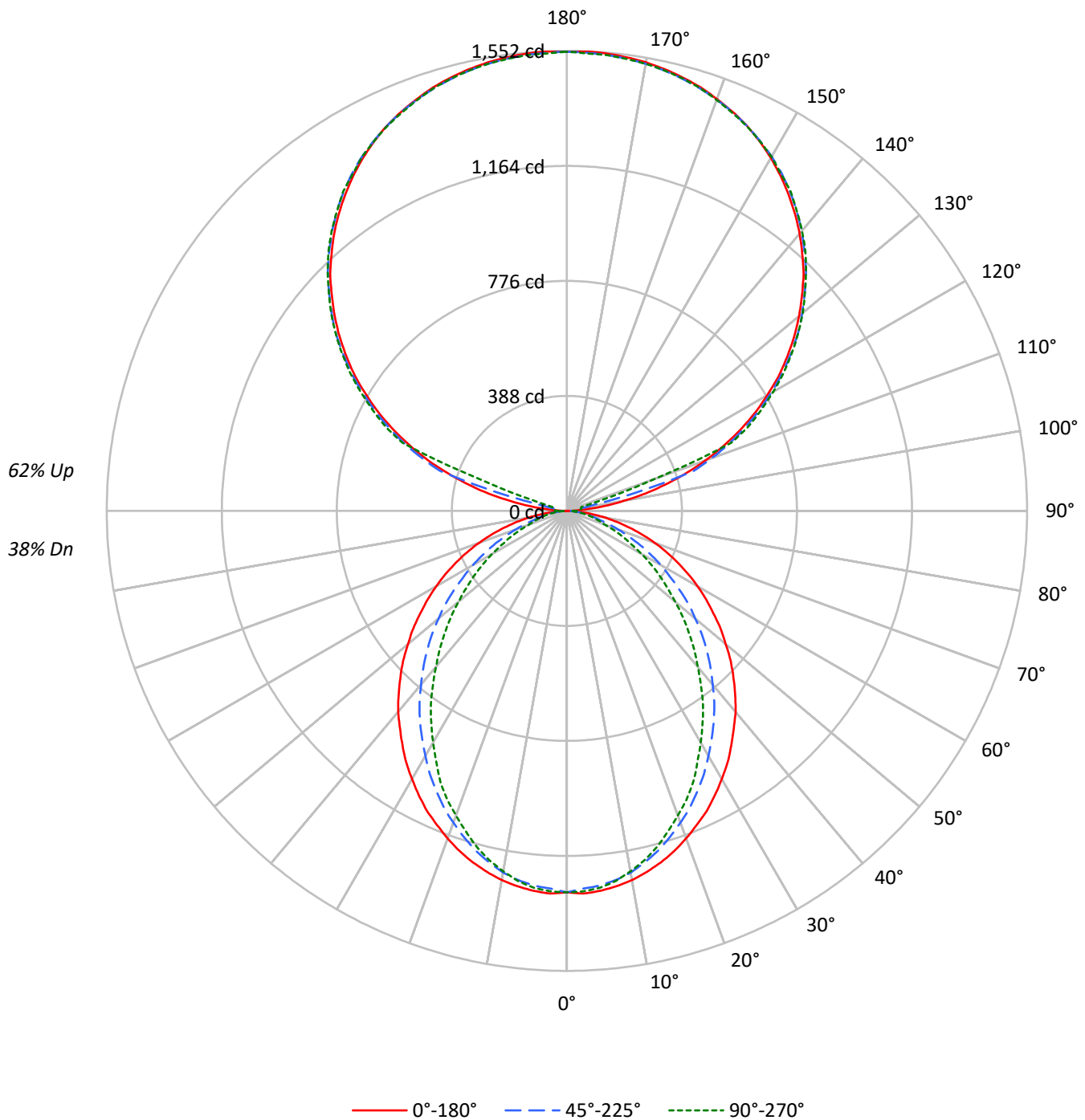
Lumens per Lamp: N/A
Luminaire Lumens: 7633.0 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 70.9
Input Voltage (V): 120
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	50	30	10
RCR																				
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45			38
1	95	91	88	84	86	83	80	77	68	65	63	53	52	51	40	39	39			33
2	87	80	74	69	79	73	68	64	59	56	53	47	45	43	36	34	33			28
3	80	70	63	58	72	64	58	53	53	48	45	42	39	36	32	30	28			24
4	73	62	55	49	66	57	50	45	47	42	38	37	34	31	29	26	25			21
5	67	56	48	42	60	51	44	39	42	37	33	34	30	27	26	23	21			18
6	62	50	42	36	56	46	39	34	38	33	29	30	27	24	24	21	19			16
7	57	45	37	32	52	41	35	30	34	29	25	28	24	21	22	19	17			14
8	53	41	33	28	48	38	31	26	31	26	23	25	22	19	20	17	15			13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	18	16	14			12
10	46	34	27	22	42	31	25	21	26	22	18	22	18	15	17	14	13			11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13851	13851	13851
5°	13874	13360	13324
10°	13764	12858	12605
15°	13586	12238	11816
20°	13350	11562	10936
25°	13109	10861	10102
30°	12799	10114	9115
35°	12480	9381	8216
40°	12180	8585	7224
45°	11795	7806	6331
50°	11370	6974	5408
55°	10930	6085	4562
60°	10509	5172	3703
65°	9964	4234	2890
70°	9282	3203	2066
75°	8296	2168	1637
80°	7079	1506	1147
85°	5312	813	601

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11795 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.0	1.6
10°-20°	336.5	4.4
20°-30°	484.5	6.3
30°-40°	545.6	7.1
40°-50°	521.9	6.8
50°-60°	427.2	5.6
60°-70°	288.0	3.8
70°-80°	144.5	1.9
80°-90°	40.9	0.5
90°-100°	54.6	0.7
100°-110°	264.1	3.5
110°-120°	647.3	8.5
120°-130°	821.7	10.8
130°-140°	877.8	11.5
140°-150°	820.8	10.8
150°-160°	662.1	8.7
160°-170°	427.3	5.6
170°-180°	147.2	1.9
0°-30°	942.0	12.3
0°-40°	1487.6	19.5
0°-60°	2436.7	31.9
0°-90°	2910.1	38.1
90°-120°	966.0	12.7
90°-150°	3486.3	45.7
90°-180°	4723.0	61.9
0°-180°	7633.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1287	1287	1287	1287	1287	
5°	1287	1282	1269	1278	1276	122
15°	1227	1216	1187	1181	1174	346
25°	1117	1091	1043	1021	1009	514
35°	966	929	864	819	800	605
45°	794	747	667	607	582	613
55°	603	552	463	403	382	541
65°	412	355	273	222	211	408
75°	218	168	111	100	98	232
85°	55	32	29	27	27	61
90°	1	13	28	32	34	7
95°	70	23	36	44	44	84
105°	343	356	252	48	51	364
115°	643	650	661	672	677	635
125°	907	916	921	923	925	810
135°	1129	1136	1141	1144	1141	869
145°	1303	1311	1313	1316	1316	816
155°	1435	1433	1434	1440	1433	661
165°	1514	1510	1509	1518	1510	428
175°	1549	1544	1545	1553	1544	147
180°	1549	1549	1549	1549	1549	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1286.8	1286.8	1286.8	1286.8	1286.8
2.5°	1292.0	1287.8	1275.3	1286.8	1284.7
5°	1286.8	1281.5	1269.0	1278.4	1276.3
7.5°	1277.4	1272.1	1256.5	1262.7	1259.6
10°	1264.8	1257.5	1238.7	1239.8	1234.6
12.5°	1247.1	1238.7	1214.7	1213.7	1207.4
15°	1227.3	1215.8	1186.6	1181.3	1174.0
17.5°	1203.3	1190.7	1154.2	1143.8	1133.3
20°	1176.1	1159.4	1119.8	1106.2	1093.7
22.5°	1145.9	1126.0	1083.3	1065.5	1054.0
25°	1116.6	1090.6	1042.6	1020.6	1009.2
27.5°	1081.2	1053.0	1000.8	971.6	953.8
30°	1044.6	1013.3	954.9	919.4	902.7
32.5°	1008.1	971.6	909.0	869.3	851.6
35°	966.4	928.8	864.1	819.2	800.4
37.5°	924.6	883.9	816.1	766.0	743.0
40°	885.0	839.0	765.0	710.7	686.7
42.5°	840.1	794.2	716.9	656.4	635.5
45°	794.2	747.2	666.9	607.4	582.3
47.5°	749.3	697.1	617.8	553.1	531.2
50°	699.2	650.2	565.6	500.9	476.9
52.5°	654.3	600.1	516.6	448.7	427.9
55°	603.2	552.1	463.4	402.8	382.0
57.5°	557.3	502.0	412.2	354.8	337.1
60°	509.3	451.9	365.3	308.9	291.2
62.5°	461.3	403.9	317.3	265.1	246.3
65°	412.2	354.8	273.4	222.3	210.8
67.5°	363.2	304.7	225.4	186.8	174.3
70°	315.2	258.8	185.8	149.2	137.8
72.5°	267.2	211.8	147.1	119.0	115.8
75°	218.1	168.0	110.6	100.2	98.1
77.5°	173.2	127.3	86.6	80.4	78.3
80°	130.4	87.7	65.7	62.6	60.5
82.5°	89.7	54.3	47.0	43.8	43.8
85°	55.3	32.4	29.2	27.1	27.1
87.5°	25.0	13.6	13.6	12.5	11.5
90°	1.2	12.7	27.6	32.2	34.5
92.5°	26.5	19.6	29.9	38.0	39.1
95°	70.2	23.0	35.7	43.7	43.7
97.5°	127.8	95.5	36.8	46.0	47.2
100°	194.5	217.5	38.0	47.2	48.3
102.5°	270.5	285.4	85.2	47.2	49.5
105°	343.0	355.7	252.1	48.3	50.6
107.5°	420.1	430.5	447.7	270.5	119.7
110°	497.2	506.4	519.1	481.1	316.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	570.9	578.9	591.6	602.0	599.7
115°	643.4	650.3	660.7	672.2	676.8
117.5°	714.8	722.8	728.6	737.8	738.9
120°	780.4	790.7	794.2	803.4	803.4
122.5°	847.1	855.2	859.8	865.5	866.7
125°	907.0	916.2	920.8	923.1	925.4
127.5°	966.8	976.0	981.8	985.2	982.9
130°	1022.1	1031.3	1035.9	1040.5	1038.2
132.5°	1075.0	1084.2	1087.7	1092.3	1088.8
135°	1129.1	1136.0	1140.6	1144.1	1140.6
137.5°	1175.1	1184.4	1186.7	1192.4	1190.1
140°	1221.2	1228.1	1231.5	1236.1	1233.8
142.5°	1263.8	1270.7	1274.1	1277.6	1274.1
145°	1302.9	1311.0	1313.3	1315.6	1315.6
147.5°	1340.9	1346.6	1348.9	1351.2	1345.5
150°	1375.4	1378.9	1381.2	1383.5	1380.0
152.5°	1406.5	1407.6	1408.8	1413.4	1407.6
155°	1435.3	1433.0	1434.1	1439.9	1433.0
157.5°	1458.3	1458.3	1457.1	1464.0	1454.8
160°	1479.0	1477.9	1476.7	1483.6	1475.6
162.5°	1498.6	1495.1	1494.0	1502.0	1495.1
165°	1513.5	1510.1	1508.9	1518.1	1510.1
167.5°	1526.2	1521.6	1521.6	1530.8	1521.6
170°	1536.6	1531.9	1531.9	1541.2	1531.9
172.5°	1543.5	1537.7	1538.9	1548.1	1537.7
175°	1549.2	1543.5	1544.6	1552.7	1543.5
177.5°	1551.5	1545.8	1546.9	1556.1	1544.6
180°	1549.2	1549.2	1549.2	1549.2	1549.2

(END OF REPORT)