

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: P1010985

Luminaire Tested: S123RDIP-B775D1195UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010985
REPORT IS A COMBINATION OF REPORTS P993571 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B775D1195UB2750-4F0-XX-W2A-F_3000K
Description: Define 3 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

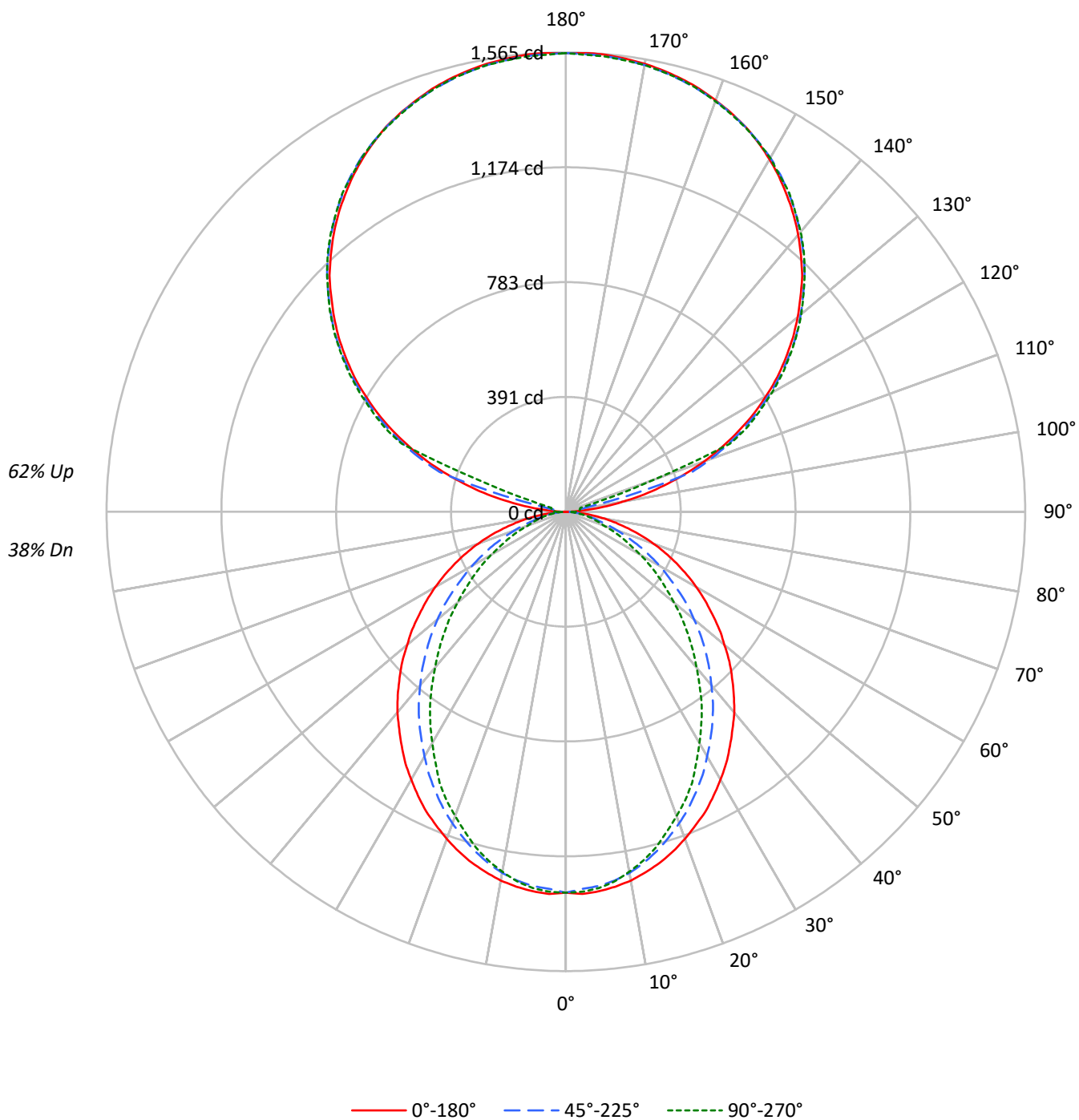
Lumens per Lamp: N/A
Luminaire Lumens: 7699.0 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13969	13969	13969
5°	13992	13475	13439
10°	13882	12969	12713
15°	13702	12343	11918
20°	13465	11661	11030
25°	13221	10953	10188
30°	12909	10201	9194
35°	12588	9461	8287
40°	12284	8657	7286
45°	11896	7873	6386
50°	11467	7034	5455
55°	11024	6136	4601
60°	10600	5216	3735
65°	10051	4272	2915
70°	9362	3230	2083
75°	8369	2188	1650
80°	7145	1520	1157
85°	5360	821	607

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11896 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.0	1.6
10°-20°	339.4	4.4
20°-30°	488.7	6.3
30°-40°	550.3	7.1
40°-50°	526.4	6.8
50°-60°	430.9	5.6
60°-70°	290.5	3.8
70°-80°	145.7	1.9
80°-90°	41.2	0.5
90°-100°	55.1	0.7
100°-110°	266.4	3.5
110°-120°	652.9	8.5
120°-130°	828.8	10.8
130°-140°	885.4	11.5
140°-150°	827.9	10.8
150°-160°	667.8	8.7
160°-170°	431.0	5.6
170°-180°	148.5	1.9
0°-30°	950.1	12.3
0°-40°	1500.4	19.5
0°-60°	2457.7	31.9
0°-90°	2935.1	38.1
90°-120°	974.4	12.7
90°-150°	3516.6	45.7
90°-180°	4764.0	61.9
0°-180°	7699.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1298	1298	1298	1298	1298	
5°	1298	1293	1280	1289	1287	123
15°	1238	1226	1197	1192	1184	349
25°	1126	1100	1052	1029	1018	518
35°	975	937	872	826	807	610
45°	801	754	673	613	587	618
55°	608	557	467	406	385	546
65°	416	358	276	224	213	411
75°	220	170	112	101	99	234
85°	56	33	30	27	27	61
90°	1	13	28	32	35	7
95°	71	23	36	44	44	85
105°	346	359	254	49	51	367
115°	649	656	666	678	683	641
125°	915	924	929	931	933	817
135°	1139	1146	1150	1154	1150	877
145°	1314	1322	1325	1327	1327	823
155°	1448	1445	1447	1452	1445	667
165°	1527	1523	1522	1531	1523	431
175°	1563	1557	1558	1566	1557	149
180°	1563	1563	1563	1563	1563	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1297.8	1297.8	1297.8	1297.8	1297.8
2.5°	1303.1	1298.9	1286.2	1297.8	1295.7
5°	1297.8	1292.6	1279.9	1289.4	1287.3
7.5°	1288.3	1283.1	1267.3	1273.6	1270.5
10°	1275.7	1268.3	1249.4	1250.5	1245.2
12.5°	1257.8	1249.4	1225.2	1224.1	1217.8
15°	1237.8	1226.2	1196.8	1191.5	1184.1
17.5°	1213.6	1201.0	1164.1	1153.6	1143.1
20°	1186.2	1169.4	1129.4	1115.7	1103.1
22.5°	1155.7	1135.7	1092.6	1074.7	1063.1
25°	1126.2	1099.9	1051.5	1029.4	1017.8
27.5°	1090.5	1062.0	1009.4	979.9	962.0
30°	1053.6	1022.0	963.1	927.3	910.5
32.5°	1016.8	979.9	916.8	876.8	858.9
35°	974.7	936.8	871.5	826.3	807.3
37.5°	932.6	891.5	823.1	772.6	749.4
40°	892.6	846.3	771.5	716.8	692.6
42.5°	847.3	801.0	723.1	662.1	641.0
45°	801.0	753.6	672.6	612.6	587.3
47.5°	755.7	703.1	623.1	557.9	535.8
50°	705.2	655.8	570.5	505.2	481.0
52.5°	660.0	605.2	521.0	452.6	431.6
55°	608.4	556.8	467.3	406.3	385.2
57.5°	562.1	506.3	415.8	357.9	340.0
60°	513.7	455.8	368.4	311.6	293.7
62.5°	465.2	407.3	320.0	267.4	248.4
65°	415.8	357.9	275.8	224.2	212.6
67.5°	366.3	307.4	227.4	188.4	175.8
70°	317.9	261.0	187.4	150.5	138.9
72.5°	269.5	213.7	148.4	120.0	116.8
75°	220.0	169.5	111.6	101.0	98.9
77.5°	174.7	128.4	87.4	81.0	78.9
80°	131.6	88.4	66.3	63.2	61.0
82.5°	90.5	54.7	47.4	44.2	44.2
85°	55.8	32.6	29.5	27.4	27.4
87.5°	25.3	13.7	13.7	12.6	11.6
90°	1.2	12.8	27.9	32.5	34.8
92.5°	26.7	19.7	30.2	38.3	39.5
95°	70.8	23.2	36.0	44.1	44.1
97.5°	128.9	96.4	37.2	46.4	47.6
100°	196.2	219.4	38.3	47.6	48.8
102.5°	272.8	287.9	85.9	47.6	49.9
105°	346.0	358.7	254.3	48.8	51.1
107.5°	423.8	434.2	451.6	272.8	120.7
110°	501.5	510.8	523.6	485.3	319.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	575.8	584.0	596.7	607.2	604.9
115°	649.0	655.9	666.4	678.0	682.6
117.5°	721.0	729.1	734.9	744.2	745.3
120°	787.1	797.6	801.1	810.4	810.4
122.5°	854.5	862.6	867.2	873.0	874.2
125°	914.8	924.1	928.8	931.1	933.4
127.5°	975.2	984.5	990.3	993.8	991.5
130°	1030.9	1040.2	1044.9	1049.5	1047.2
132.5°	1084.3	1093.6	1097.1	1101.8	1098.3
135°	1138.9	1145.9	1150.5	1154.0	1150.5
137.5°	1185.3	1194.6	1197.0	1202.8	1200.4
140°	1231.8	1238.7	1242.2	1246.9	1244.5
142.5°	1274.7	1281.7	1285.2	1288.7	1285.2
145°	1314.2	1322.3	1324.7	1327.0	1327.0
147.5°	1352.5	1358.3	1360.6	1363.0	1357.2
150°	1387.3	1390.8	1393.2	1395.5	1392.0
152.5°	1418.7	1419.9	1421.0	1425.7	1419.9
155°	1447.7	1445.4	1446.6	1452.4	1445.4
157.5°	1470.9	1470.9	1469.8	1476.7	1467.5
160°	1491.8	1490.7	1489.5	1496.5	1488.4
162.5°	1511.6	1508.1	1506.9	1515.1	1508.1
165°	1526.7	1523.2	1522.0	1531.3	1523.2
167.5°	1539.4	1534.8	1534.8	1544.1	1534.8
170°	1549.9	1545.2	1545.2	1554.5	1545.2
172.5°	1556.8	1551.0	1552.2	1561.5	1551.0
175°	1562.7	1556.8	1558.0	1566.1	1556.8
177.5°	1565.0	1559.2	1560.3	1569.6	1558.0
180°	1562.7	1562.7	1562.7	1562.7	1562.7

(END OF REPORT)