

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: P1032393

Luminaire Tested: S123RDIW-B775D1320UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032393
REPORT IS A COMBINATION OF REPORTS P994667 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B775D1320UB30-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

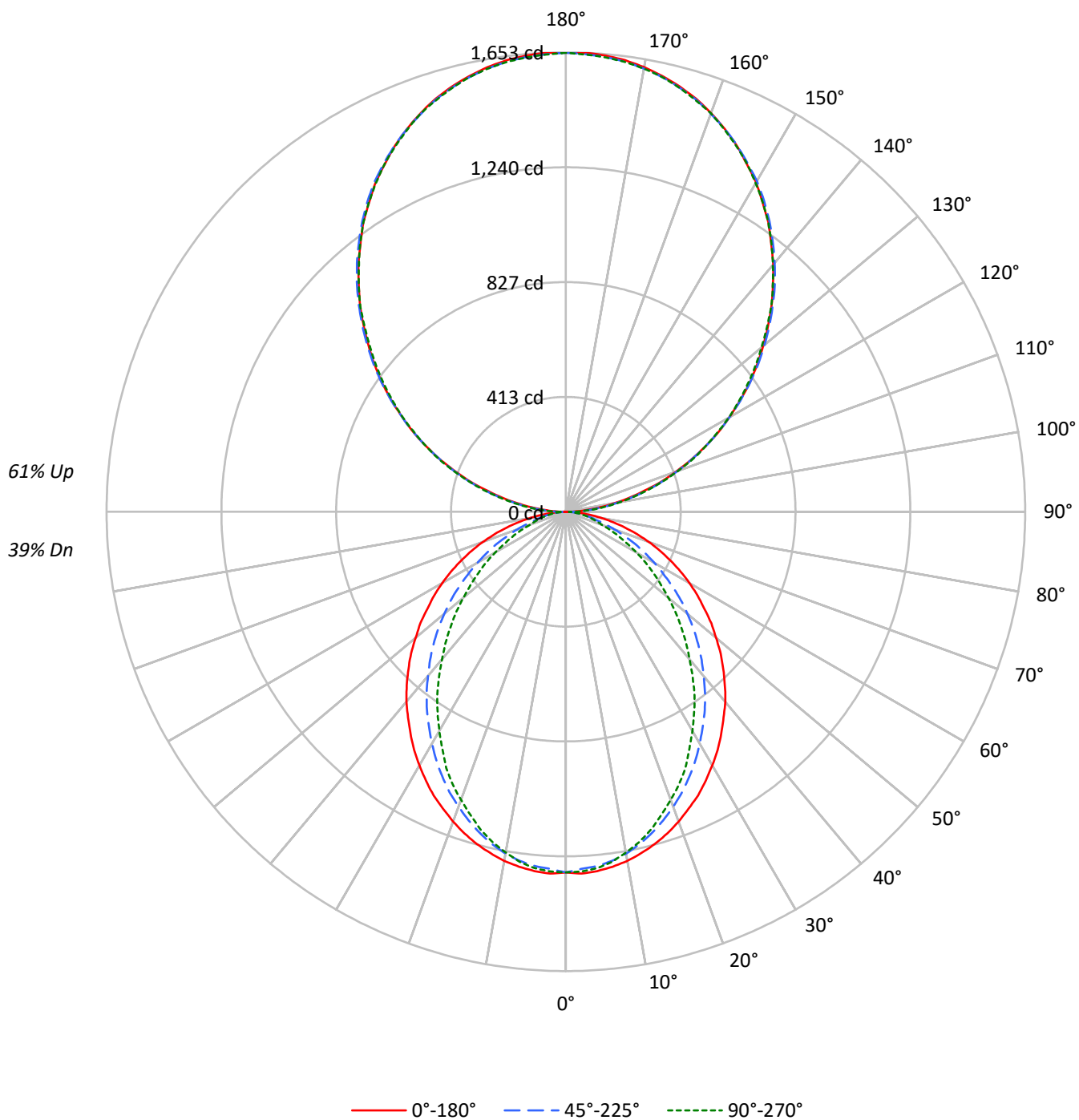
Lumens per Lamp: N/A
Luminaire Lumens: 7512.0 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 78
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	95	95	95	95	77	77	77	61	61	61	46	46	46
1	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	39
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	36	35	34
3	80	71	64	58	72	64	58	54	53	49	45	42	39	37	33	31	29
4	73	63	55	49	66	57	51	46	47	42	38	38	34	32	29	27	25
5	67	56	48	42	61	51	44	39	42	37	33	34	30	28	26	24	22
6	62	50	42	37	56	46	39	34	38	33	29	31	27	24	24	21	19
7	57	45	37	32	52	42	35	30	35	29	26	28	24	21	22	19	17
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	20	18	16
9	49	37	30	25	45	34	28	24	29	24	20	24	20	17	19	16	14
10	46	34	27	23	42	32	25	21	27	22	18	22	18	16	17	15	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	4.5
20°-30°	488.7	6.5
30°-40°	550.3	7.3
40°-50°	526.4	7.0
50°-60°	430.9	5.7
60°-70°	290.5	3.9
70°-80°	145.7	1.9
80°-90°	41.6	0.6
90°-100°	106.3	1.4
100°-110°	321.8	4.3
110°-120°	547.8	7.3
120°-130°	720.7	9.6
130°-140°	810.1	10.8
140°-150°	796.4	10.6
150°-160°	670.5	8.9
160°-170°	446.4	5.9
170°-180°	156.3	2.1
0°-30°	950.1	12.6
0°-40°	1500.4	20.0
0°-60°	2457.7	32.7
0°-90°	2935.5	39.1
90°-120°	976.0	13.0
90°-150°	3303.2	44.0
90°-180°	4576.0	60.9
0°-180°	7512.0	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	14	31	36	39	9
95°	77	86	96	101	101	84
105°	292	294	306	306	309	313
115°	551	555	553	554	553	546
125°	807	811	808	803	798	720
135°	1047	1055	1054	1048	1046	807
145°	1270	1273	1277	1275	1270	793
155°	1454	1454	1456	1461	1452	670
165°	1584	1580	1580	1588	1579	447
175°	1648	1643	1643	1650	1641	157
180°	1652	1652	1652	1652	1652	

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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°	1.3	14.3	31.1	36.3	38.9
92.5°	38.9	46.7	54.5	58.4	55.8
95°	76.6	85.6	96.0	101.2	101.2
97.5°	125.9	132.3	140.1	146.6	145.3
100°	176.5	184.2	190.7	194.6	197.2
102.5°	234.8	238.7	247.8	251.7	250.4
105°	291.9	294.5	306.2	306.2	308.8
107.5°	359.4	360.7	365.9	369.8	368.5
110°	421.7	424.3	426.9	432.1	429.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	486.6	487.8	487.8	494.3	494.3
115°	551.4	555.3	552.7	554.0	552.7
117.5°	617.6	618.9	616.3	616.3	612.4
120°	678.6	686.4	679.9	678.6	676.0
122.5°	742.2	747.3	744.7	740.9	737.0
125°	807.0	810.9	808.3	803.1	797.9
127.5°	866.7	874.5	871.9	864.1	858.9
130°	926.4	936.8	932.9	927.7	918.6
132.5°	986.1	996.5	993.9	987.4	980.9
135°	1047.1	1054.8	1053.5	1048.4	1045.8
137.5°	1102.9	1109.3	1113.2	1106.7	1102.9
140°	1161.2	1167.7	1169.0	1167.7	1158.6
142.5°	1214.4	1220.9	1223.5	1222.2	1215.7
145°	1270.2	1272.8	1276.7	1275.4	1270.2
147.5°	1318.2	1323.4	1327.3	1327.3	1319.5
150°	1368.8	1371.4	1374.0	1374.0	1366.2
152.5°	1410.4	1414.2	1415.5	1418.1	1411.6
155°	1454.5	1454.5	1455.8	1461.0	1451.9
157.5°	1492.1	1490.8	1492.1	1497.3	1489.5
160°	1527.1	1524.5	1524.5	1531.0	1525.8
162.5°	1558.3	1554.4	1555.7	1562.2	1553.1
165°	1584.2	1580.3	1580.3	1588.1	1579.0
167.5°	1606.3	1601.1	1602.4	1610.2	1602.4
170°	1624.4	1619.2	1619.2	1628.3	1619.2
172.5°	1638.7	1633.5	1633.5	1641.3	1632.2
175°	1647.8	1642.6	1642.6	1650.4	1641.3
177.5°	1653.0	1647.8	1647.8	1655.6	1646.5
180°	1651.7	1651.7	1651.7	1651.7	1651.7

(END OF REPORT)