

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: P1032455

Luminaire Tested: S123RDIW-B775D755UB35-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032455
REPORT IS A COMBINATION OF REPORTS P994805 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B775D755UB35-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

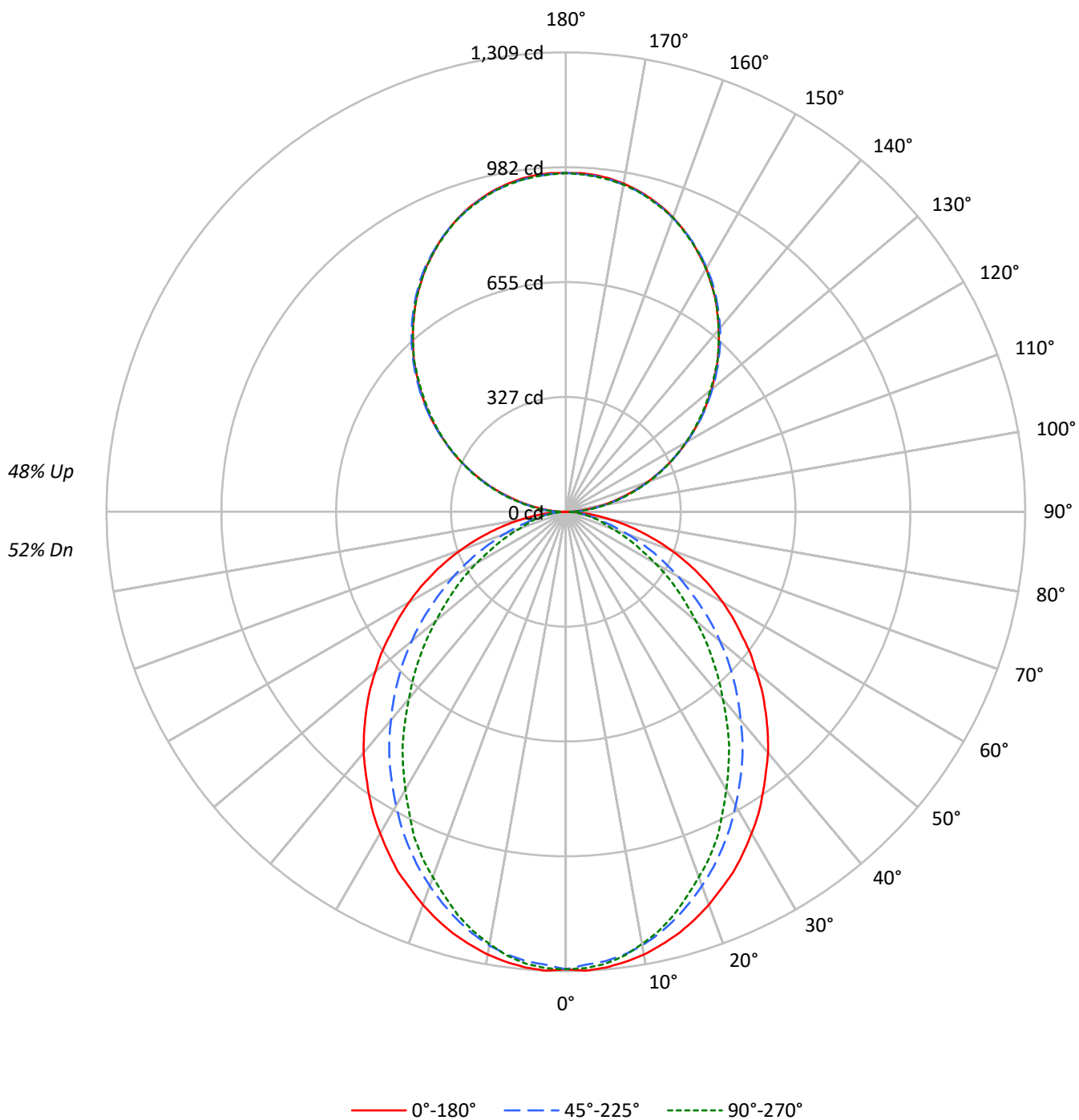
Lumens per Lamp: N/A
Luminaire Lumens: 5622.0 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 59.1
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: P1032455

CATALOG NUMBER: S123RDIW-B775D755UB35-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1032455

CATALOG NUMBER: S123RDIW-B775D755UB35-4F0-XX-W2A-F1

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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58
1	99	94	91	87	91	88	84	81	75	72	70	63	61	60	52	51	50
2	90	83	77	72	83	77	72	67	66	62	59	56	53	50	46	44	43
3	82	73	66	60	76	68	62	57	58	54	50	50	46	43	41	39	37
4	76	65	57	51	70	61	54	48	52	47	43	44	40	37	37	34	32
5	69	58	50	44	64	54	47	42	47	41	37	40	36	32	34	30	28
6	64	52	44	38	59	49	42	36	42	37	32	36	32	29	31	27	25
7	59	47	39	34	55	44	37	32	38	33	29	33	29	25	28	25	22
8	55	43	35	30	51	40	33	29	35	30	26	30	26	23	26	22	20
9	51	39	32	27	48	37	30	26	32	27	23	28	24	20	24	20	18
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	22	19	16

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

TEST NUMBER: P1032455

CATALOG NUMBER: S123RDIW-B775D755UB35-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.5	2.2
10°-20°	340.9	6.1
20°-30°	490.8	8.7
30°-40°	552.8	9.8
40°-50°	528.7	9.4
50°-60°	432.8	7.7
60°-70°	291.8	5.2
70°-80°	146.4	2.6
80°-90°	40.3	0.7
90°-100°	62.2	1.1
100°-110°	188.1	3.3
110°-120°	320.2	5.7
120°-130°	421.3	7.5
130°-140°	473.5	8.4
140°-150°	465.5	8.3
150°-160°	391.9	7.0
160°-170°	260.9	4.6
170°-180°	91.4	1.6
0°-30°	954.3	17.0
0°-40°	1507.0	26.8
0°-60°	2468.6	43.9
0°-90°	2947.1	52.4
90°-120°	570.5	10.1
90°-150°	1930.7	34.3
90°-180°	2675.0	47.6
0°-180°	5622.0	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	8	18	21	23	7
95°	45	50	56	59	59	49
105°	171	172	179	179	180	183
115°	322	325	323	324	323	319
125°	472	474	472	469	466	421
135°	612	617	616	613	611	472
145°	742	744	746	746	742	464
155°	850	850	851	854	849	391
165°	926	924	924	928	923	261
175°	963	960	960	965	959	92
180°	965	965	965	965	965	

TEST NUMBER: P1032455

CATALOG NUMBER: S123RDIW-B775D755UB35-4F0-XX-W2A-F1

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°	0.8	8.3	18.2	21.2	22.8
92.5°	22.8	27.3	31.9	34.1	32.6
95°	44.7	50.1	56.1	59.2	59.2
97.5°	73.6	77.4	81.9	85.7	84.9
100°	103.1	107.7	111.5	113.8	115.3
102.5°	137.3	139.5	144.8	147.1	146.4
105°	170.6	172.1	179.0	179.0	180.5
107.5°	210.1	210.8	213.9	216.1	215.4
110°	246.5	248.0	249.5	252.5	251.0

TEST NUMBER: P1032455

CATALOG NUMBER: S123RDIW-B775D755UB35-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	284.4	285.1	285.1	288.9	288.9
115°	322.3	324.6	323.1	323.8	323.1
117.5°	361.0	361.7	360.2	360.2	358.0
120°	396.6	401.2	397.4	396.6	395.1
122.5°	433.8	436.8	435.3	433.0	430.8
125°	471.7	474.0	472.5	469.4	466.4
127.5°	506.6	511.1	509.6	505.1	502.0
130°	541.5	547.5	545.3	542.2	536.9
132.5°	576.4	582.4	580.9	577.1	573.3
135°	612.0	616.6	615.8	612.8	611.2
137.5°	644.6	648.4	650.7	646.9	644.6
140°	678.7	682.5	683.3	682.5	677.2
142.5°	709.8	713.6	715.1	714.4	710.6
145°	742.4	744.0	746.2	745.5	742.4
147.5°	770.5	773.5	775.8	775.8	771.3
150°	800.1	801.6	803.1	803.1	798.6
152.5°	824.3	826.6	827.4	828.9	825.1
155°	850.1	850.1	850.9	853.9	848.6
157.5°	872.1	871.4	872.1	875.2	870.6
160°	892.6	891.1	891.1	894.9	891.8
162.5°	910.8	908.5	909.3	913.1	907.8
165°	926.0	923.7	923.7	928.2	922.9
167.5°	938.9	935.8	936.6	941.1	936.6
170°	949.5	946.4	946.4	951.8	946.4
172.5°	957.8	954.8	954.8	959.3	954.0
175°	963.1	960.1	960.1	964.6	959.3
177.5°	966.2	963.1	963.1	967.7	962.4
180°	965.4	965.4	965.4	965.4	965.4

(END OF REPORT)