

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: P1032431

Luminaire Tested: S123RDIW-B775D460UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032431
REPORT IS A COMBINATION OF REPORTS P994755 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B775D460UB30-4F0-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

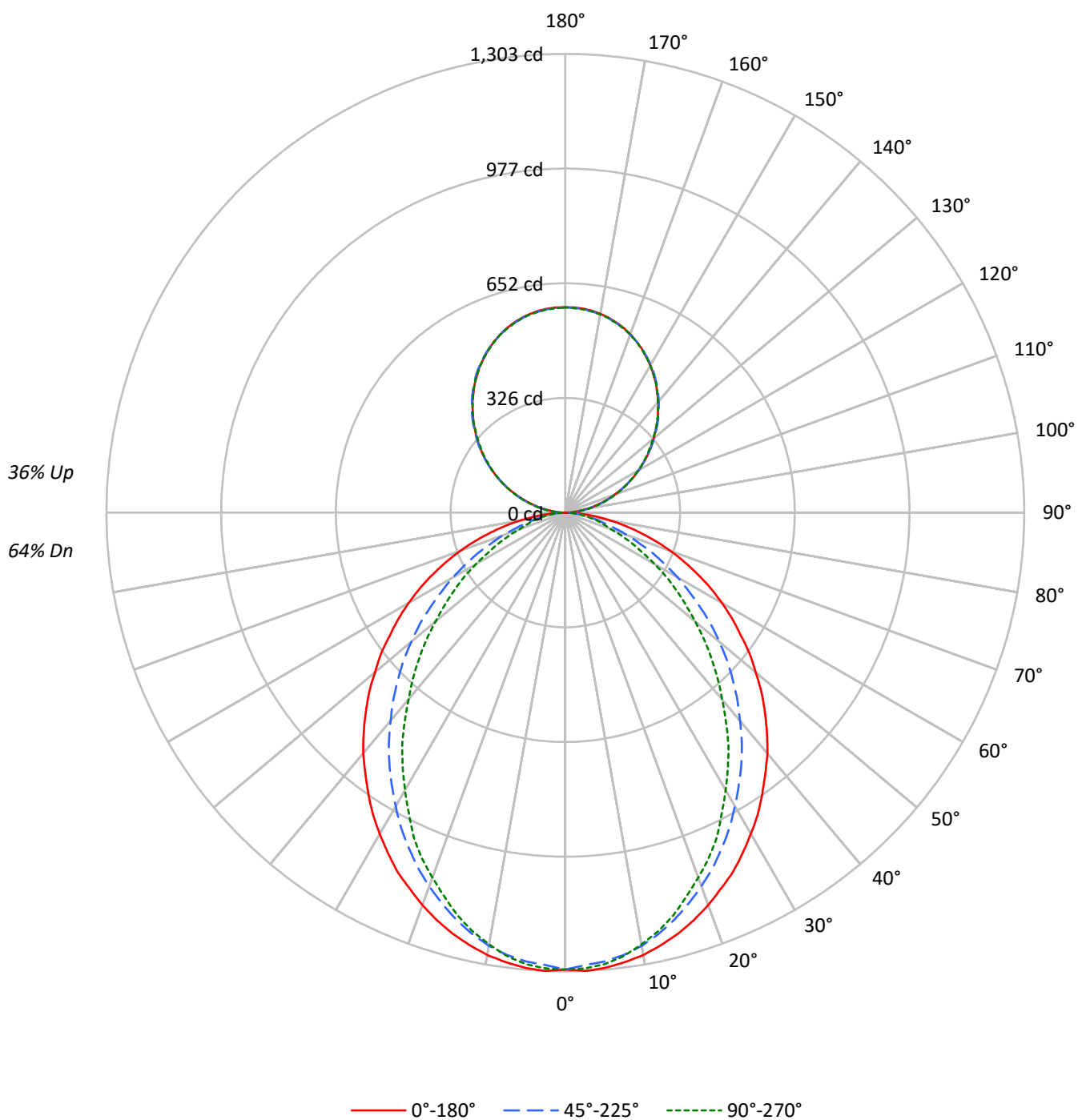
Lumens per Lamp: N/A
Luminaire Lumens: 4549.0 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 49.1
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: P1032431

CATALOG NUMBER: S123RDIW-B775D460UB30-4F0-XX-W2A-F1

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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69
1	101	97	93	90	95	92	88	85	81	78	76	71	69	68	62	61	60
2	93	85	79	74	87	81	75	71	71	67	64	63	60	57	55	53	51
3	85	75	68	62	80	71	65	60	63	58	54	56	52	49	49	46	44
4	78	67	59	53	73	63	56	51	57	51	46	50	46	42	44	41	38
5	72	60	52	46	67	57	50	44	51	45	40	45	41	37	40	36	33
6	66	54	46	40	62	51	44	39	46	40	36	41	36	33	36	33	30
7	61	49	41	35	58	47	39	34	42	36	32	38	33	29	33	29	26
8	57	45	37	32	54	43	35	30	38	32	28	34	30	26	31	27	24
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	28	25	22
10	50	38	30	26	47	36	29	25	33	27	23	29	25	21	26	23	20

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

TEST NUMBER: P1032431

CATALOG NUMBER: S123RDIW-B775D460UB30-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.0	2.7
10°-20°	339.4	7.5
20°-30°	488.7	10.7
30°-40°	550.3	12.1
40°-50°	526.4	11.6
50°-60°	430.9	9.5
60°-70°	290.5	6.4
70°-80°	145.7	3.2
80°-90°	39.3	0.9
90°-100°	37.5	0.8
100°-110°	113.6	2.5
110°-120°	193.4	4.3
120°-130°	254.5	5.6
130°-140°	286.0	6.3
140°-150°	281.2	6.2
150°-160°	236.7	5.2
160°-170°	157.6	3.5
170°-180°	55.2	1.2
0°-30°	950.1	20.9
0°-40°	1500.4	33.0
0°-60°	2457.7	54.0
0°-90°	2933.2	64.5
90°-120°	344.6	7.6
90°-150°	1166.2	25.6
90°-180°	1616.0	35.5
0°-180°	4549.0	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°	0	5	11	13	14	5
95°	27	30	34	36	36	30
105°	103	104	108	108	109	110
115°	195	196	195	196	195	193
125°	285	286	285	284	282	254
135°	370	372	372	370	369	285
145°	448	449	451	450	448	280
155°	514	514	514	516	513	236
165°	559	558	558	561	558	158
175°	582	580	580	583	580	55
180°	583	583	583	583	583	

TEST NUMBER: P1032431

CATALOG NUMBER: S123RDIW-B775D460UB30-4F0-XX-W2A-F1

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°	0.5	5.0	11.0	12.8	13.7
92.5°	13.7	16.5	19.2	20.6	19.7
95°	27.0	30.2	33.9	35.7	35.7
97.5°	44.4	46.7	49.5	51.8	51.3
100°	62.3	65.0	67.3	68.7	69.6
102.5°	82.9	84.3	87.5	88.9	88.4
105°	103.1	104.0	108.1	108.1	109.0
107.5°	126.9	127.3	129.2	130.6	130.1
110°	148.9	149.8	150.7	152.5	151.6

TEST NUMBER: P1032431

CATALOG NUMBER: S123RDIW-B775D460UB30-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	171.8	172.2	172.2	174.5	174.5
115°	194.7	196.1	195.1	195.6	195.1
117.5°	218.0	218.5	217.6	217.6	216.2
120°	239.6	242.3	240.0	239.6	238.7
122.5°	262.0	263.9	262.9	261.6	260.2
125°	284.9	286.3	285.4	283.6	281.7
127.5°	306.0	308.7	307.8	305.1	303.2
130°	327.1	330.7	329.4	327.5	324.3
132.5°	348.1	351.8	350.9	348.6	346.3
135°	369.7	372.4	372.0	370.1	369.2
137.5°	389.4	391.7	393.0	390.7	389.4
140°	410.0	412.3	412.7	412.3	409.1
142.5°	428.8	431.1	432.0	431.5	429.2
145°	448.5	449.4	450.8	450.3	448.5
147.5°	465.4	467.2	468.6	468.6	465.9
150°	483.3	484.2	485.1	485.1	482.4
152.5°	497.9	499.3	499.8	500.7	498.4
155°	513.5	513.5	514.0	515.8	512.6
157.5°	526.8	526.3	526.8	528.6	525.9
160°	539.2	538.2	538.2	540.5	538.7
162.5°	550.2	548.8	549.2	551.5	548.3
165°	559.3	557.9	557.9	560.7	557.5
167.5°	567.1	565.3	565.7	568.5	565.7
170°	573.5	571.7	571.7	574.9	571.7
172.5°	578.6	576.7	576.7	579.5	576.3
175°	581.8	579.9	579.9	582.7	579.5
177.5°	583.6	581.8	581.8	584.5	581.3
180°	583.1	583.1	583.1	583.1	583.1

(END OF REPORT)