

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: P1031974

Luminaire Tested: S123DIW-B775D755UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031974
REPORT IS A COMBINATION OF REPORTS P992154 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B775D755UB40-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

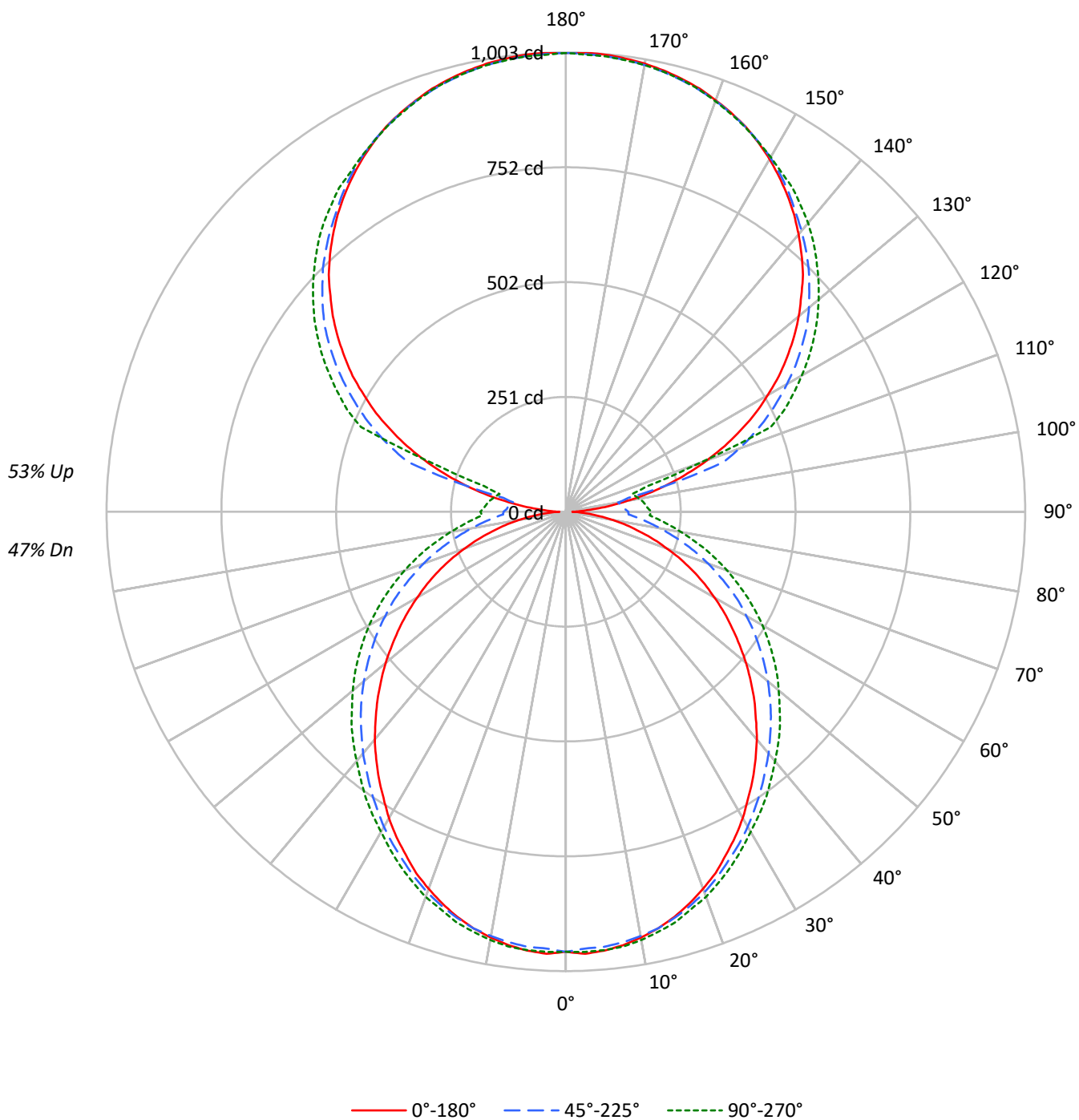
Lumens per Lamp: N/A
Luminaire Lumens: 6285.0 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1031974

CATALOG NUMBER: S123DIW-B775D755UB40-4F0-XX-W2A-D

Luminous Intensity Polar Plot



TEST NUMBER: P1031974

CATALOG NUMBER: S123DIW-B775D755UB40-4F0-XX-W2A-D

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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53
1	96	91	87	83	88	84	80	77	70	67	65	57	56	54	46	44	43
2	87	79	73	67	80	73	67	62	61	57	53	50	47	44	40	37	36
3	79	69	62	56	72	64	57	52	53	48	44	44	40	37	35	32	30
4	72	61	53	47	66	56	49	44	47	42	37	39	35	31	31	28	25
5	66	54	46	40	61	50	43	37	42	36	32	35	30	27	28	25	22
6	61	49	40	34	56	45	37	32	38	32	28	31	27	23	25	22	19
7	56	44	36	30	51	40	33	28	34	29	24	28	24	21	23	20	17
8	52	40	32	26	48	37	30	25	31	26	22	26	22	18	21	18	15
9	49	36	29	23	44	34	27	22	29	23	19	24	20	16	19	16	14
10	45	33	26	21	42	31	24	20	26	21	17	22	18	15	18	15	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10342	10342	10342
5°	10370	10039	10030
10°	10273	9766	9692
15°	10137	9466	9333
20°	9944	9132	8948
25°	9706	8754	8548
30°	9464	8414	8147
35°	9191	8055	7821
40°	8931	7728	7476
45°	8642	7412	7193
50°	8357	7097	6883
55°	8041	6775	6600
60°	7732	6446	6309
65°	7414	6095	5969
70°	6935	5701	5618
75°	6330	5252	5255
80°	5624	4797	4844
85°	4928	4431	4546

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8642 cd/sqm

TEST NUMBER: P1031974

CATALOG NUMBER: S123DIW-B775D755UB40-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	1.5
10°-20°	259.8	4.1
20°-30°	388.5	6.2
30°-40°	463.9	7.4
40°-50°	485.4	7.7
50°-60°	455.5	7.2
60°-70°	380.5	6.1
70°-80°	272.0	4.3
80°-90°	163.9	2.6
90°-100°	137.1	2.2
100°-110°	245.6	3.9
110°-120°	468.5	7.5
120°-130°	559.8	8.9
130°-140°	580.4	9.2
140°-150°	533.4	8.5
150°-160°	428.1	6.8
160°-170°	276.3	4.4
170°-180°	95.2	1.5
0°-30°	739.5	11.8
0°-40°	1203.4	19.1
0°-60°	2144.3	34.1
0°-90°	2960.6	47.1
90°-120°	851.1	13.5
90°-150°	2524.8	40.2
90°-180°	3324.0	52.9
0°-180°	6285.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	961	961	961	961	961	
5°	962	960	954	962	961	91
15°	916	919	918	928	927	258
25°	827	837	840	854	854	381
35°	712	728	742	758	762	445
45°	582	607	633	653	662	449
55°	444	478	516	544	553	397
65°	307	348	394	425	435	303
75°	166	216	268	302	315	178
85°	51	104	159	195	205	53
90°	14	73	136	175	187	12
95°	57	67	127	164	175	63
105°	230	264	242	139	150	244
115°	421	438	483	515	527	416
125°	590	596	629	652	661	527
135°	732	736	750	771	774	564
145°	844	848	849	859	863	528
155°	928	927	927	931	927	428
165°	979	976	976	982	976	277
175°	1002	998	999	1004	998	95
180°	1002	1002	1002	1002	1002	

TEST NUMBER: P1031974

CATALOG NUMBER: S123DIW-B775D755UB40-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	960.8	960.8	960.8	960.8	960.8
2.5°	966.0	962.9	954.5	962.9	961.8
5°	961.8	959.7	953.5	961.8	960.8
7.5°	954.5	954.5	948.2	958.7	957.6
10°	944.0	946.1	940.9	951.4	949.3
12.5°	931.5	934.6	931.5	940.9	938.8
15°	915.8	918.9	917.9	928.3	927.3
17.5°	896.9	903.2	902.2	911.6	909.5
20°	876.0	882.3	884.4	893.8	894.9
22.5°	854.0	860.3	863.5	876.0	875.0
25°	826.8	837.3	840.4	854.0	854.0
27.5°	800.7	812.2	818.4	830.0	831.0
30°	772.4	786.0	794.4	806.9	806.9
32.5°	741.0	756.7	768.2	781.8	785.0
35°	711.7	728.4	742.0	757.7	761.9
37.5°	680.3	699.1	714.8	732.6	735.8
40°	648.9	667.7	688.7	706.5	710.6
42.5°	614.4	638.4	660.4	680.3	686.6
45°	581.9	607.0	633.2	653.1	661.5
47.5°	547.4	575.6	604.9	626.9	633.2
50°	513.9	543.2	575.6	599.7	607.0
52.5°	478.3	509.7	546.3	571.4	580.9
55°	443.8	478.3	516.0	544.2	552.6
57.5°	410.3	445.9	486.7	514.9	524.4
60°	374.7	412.4	455.3	484.6	496.1
62.5°	341.2	379.9	426.0	455.3	465.7
65°	306.7	347.5	393.5	424.9	435.4
67.5°	272.1	315.0	361.1	395.6	404.0
70°	235.5	280.5	330.7	364.2	374.7
72.5°	202.0	247.0	299.3	333.9	344.3
75°	166.4	215.6	267.9	302.5	315.0
77.5°	136.1	185.2	237.6	274.2	283.6
80°	103.6	154.9	209.3	244.9	255.4
82.5°	75.4	127.7	183.2	218.7	229.2
85°	51.3	103.6	159.1	194.7	205.1
87.5°	31.4	83.7	137.1	172.7	183.2
90°	14.3	73.1	136.2	174.7	186.6
92.5°	29.7	70.3	129.3	169.0	179.2
95°	56.9	67.2	126.7	164.4	174.8
97.5°	93.1	109.9	121.1	158.5	169.7
100°	135.2	183.6	115.7	151.9	163.2
102.5°	183.3	222.3	139.9	144.6	156.5
105°	230.2	263.5	241.5	139.1	149.9
107.5°	279.0	307.7	361.7	275.4	187.3
110°	327.8	352.6	402.7	405.3	307.3

TEST NUMBER: P1031974

CATALOG NUMBER: S123DIW-B775D755UB40-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	375.5	395.3	443.3	476.1	484.1
115°	421.2	438.3	482.7	515.2	526.6
117.5°	467.4	481.0	520.3	551.4	560.5
120°	508.8	520.7	557.5	587.5	594.9
122.5°	552.0	559.3	594.7	621.4	629.5
125°	589.6	595.5	628.9	652.4	661.2
127.5°	628.3	633.2	663.2	686.3	692.1
130°	664.0	669.0	692.8	715.7	720.5
132.5°	697.2	703.2	721.1	742.9	748.1
135°	732.2	735.6	750.2	771.2	774.2
137.5°	762.0	766.8	775.7	796.2	800.0
140°	790.7	795.1	800.6	819.2	822.9
142.5°	818.2	821.7	823.9	839.7	842.7
145°	843.5	847.7	849.2	859.1	863.3
147.5°	867.1	870.8	872.3	876.9	877.3
150°	889.4	891.6	893.1	894.6	894.5
152.5°	909.5	910.2	911.0	914.0	910.2
155°	928.1	926.6	927.3	931.1	926.6
157.5°	943.0	943.0	942.2	946.7	940.7
160°	956.4	955.6	954.9	959.4	954.1
162.5°	969.0	966.8	966.1	971.3	966.8
165°	978.7	976.5	975.7	981.7	976.5
167.5°	986.9	983.9	983.9	989.9	983.9
170°	993.6	990.6	990.6	996.6	990.6
172.5°	998.1	994.3	995.1	1001.0	994.3
175°	1001.8	998.1	998.8	1004.0	998.1
177.5°	1003.3	999.5	1000.3	1006.2	998.8
180°	1001.8	1001.8	1001.8	1001.8	1001.8

(END OF REPORT)