

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: P1031963

Luminaire Tested: S123DIW-B775D755UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031963
REPORT IS A COMBINATION OF REPORTS P992137 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B775D755UB30-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

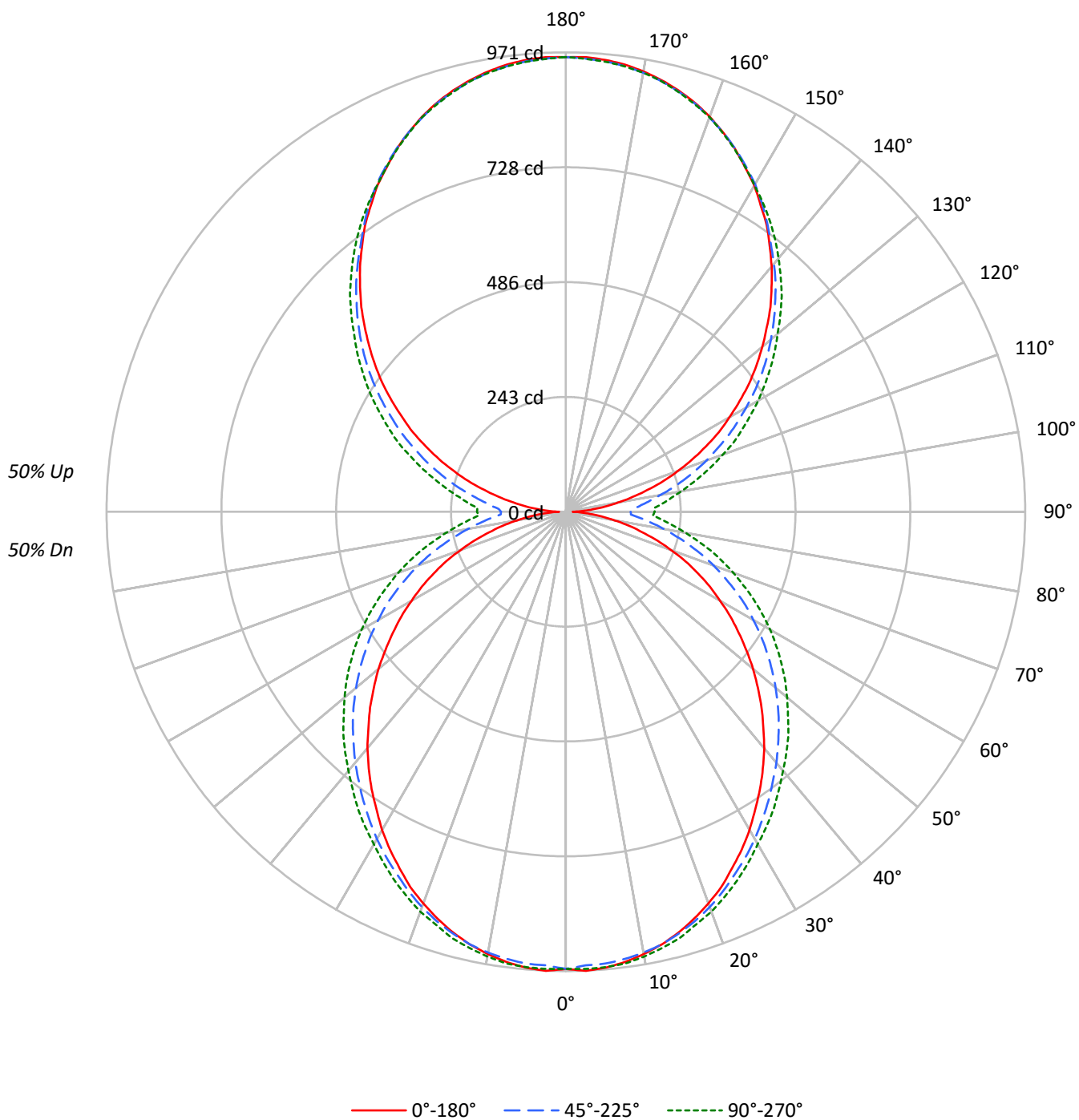
Lumens per Lamp: N/A
Luminaire Lumens: 5912.0 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1031963

CATALOG NUMBER: S123DIW-B775D755UB30-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1031963

CATALOG NUMBER: S123DIW-B775D755UB30-4F0-XX-W2A-D1

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	107	107	107	107	99	99	99	99	84	84	84	69	69	69	56	56	56
1	97	92	88	84	89	85	81	78	72	69	66	59	57	56	48	47	46
2	88	80	73	68	81	74	68	63	62	58	54	52	48	46	42	40	38
3	80	70	62	56	73	64	58	52	54	49	45	45	41	38	37	34	32
4	73	62	53	47	67	57	50	44	48	43	38	40	36	32	33	29	27
5	67	55	46	40	61	51	43	38	43	37	33	36	31	28	29	26	23
6	61	49	41	35	56	45	38	32	39	33	28	32	28	24	26	23	20
7	57	44	36	30	52	41	34	28	35	29	25	29	25	21	24	21	18
8	53	40	32	27	48	37	30	25	32	26	22	27	22	19	22	19	16
9	49	36	29	24	45	34	27	22	29	24	20	25	20	17	20	17	14
10	46	33	26	21	42	31	24	20	27	21	18	23	18	15	19	16	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10399	10399	10399
5°	10428	10094	10086
10°	10330	9820	9746
15°	10194	9519	9385
20°	9999	9182	8997
25°	9760	8803	8596
30°	9516	8460	8193
35°	9243	8101	7865
40°	8980	7771	7518
45°	8691	7453	7232
50°	8404	7136	6922
55°	8085	6814	6637
60°	7775	6482	6345
65°	7455	6129	6002
70°	6973	5733	5650
75°	6364	5281	5285
80°	5657	4825	4870
85°	4956	4456	4573

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8691 cd/sqm

TEST NUMBER: P1031963

CATALOG NUMBER: S123DIW-B775D755UB30-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.6	1.6
10°-20°	261.3	4.4
20°-30°	390.7	6.6
30°-40°	466.5	7.9
40°-50°	488.1	8.3
50°-60°	458.0	7.7
60°-70°	382.6	6.5
70°-80°	273.6	4.6
80°-90°	164.8	2.8
90°-100°	164.1	2.8
100°-110°	262.4	4.4
110°-120°	369.0	6.2
120°-130°	448.0	7.6
130°-140°	484.2	8.2
140°-150°	466.1	7.9
150°-160°	390.2	6.6
160°-170°	259.7	4.4
170°-180°	91.0	1.5
0°-30°	743.6	12.6
0°-40°	1210.1	20.5
0°-60°	2156.2	36.5
0°-90°	2977.2	50.4
90°-120°	795.6	13.5
90°-150°	2194.0	37.1
90°-180°	2935.0	49.6
0°-180°	5912.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	967	965	959	967	966	92
15°	921	924	923	934	932	259
25°	831	842	845	859	859	383
35°	716	732	746	762	766	448
45°	585	610	637	657	665	451
55°	446	481	519	547	556	400
65°	308	349	396	427	438	305
75°	167	217	269	304	317	179
85°	52	104	160	196	206	53
90°	14	74	137	176	188	13
95°	56	102	160	196	206	58
105°	178	205	257	287	298	190
115°	326	341	377	403	411	323
125°	473	475	504	523	527	422
135°	611	615	626	642	645	471
145°	740	741	743	750	752	462
155°	846	846	847	850	845	390
165°	922	920	920	924	919	260
175°	959	956	956	960	955	91
180°	961	961	961	961	961	

TEST NUMBER: P1031963

CATALOG NUMBER: S123DIW-B775D755UB30-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	966.1	966.1	966.1	966.1	966.1
2.5°	971.4	968.2	959.8	968.2	967.2
5°	967.2	965.1	958.8	967.2	966.1
7.5°	959.8	959.8	953.5	964.0	963.0
10°	949.3	951.4	946.1	956.7	954.6
12.5°	936.7	939.8	936.7	946.1	944.0
15°	920.9	924.0	923.0	933.5	932.5
17.5°	901.9	908.3	907.2	916.7	914.6
20°	880.9	887.2	889.3	898.8	899.8
22.5°	858.8	865.1	868.3	880.9	879.8
25°	831.4	842.0	845.1	858.8	858.8
27.5°	805.1	816.7	823.0	834.6	835.6
30°	776.7	790.4	798.8	811.4	811.4
32.5°	745.1	760.9	772.5	786.2	789.3
35°	715.7	732.5	746.2	762.0	766.2
37.5°	684.1	703.0	718.8	736.7	739.9
40°	652.5	671.5	692.5	710.4	714.6
42.5°	617.8	642.0	664.1	684.1	690.4
45°	585.2	610.4	636.7	656.7	665.1
47.5°	550.4	578.8	608.3	630.4	636.7
50°	516.8	546.2	578.8	603.1	610.4
52.5°	481.0	512.5	549.4	574.6	584.1
55°	446.2	481.0	518.9	547.3	555.7
57.5°	412.6	448.3	489.4	517.8	527.3
60°	376.8	414.7	457.8	487.3	498.9
62.5°	343.1	382.0	428.3	457.8	468.3
65°	308.4	349.4	395.7	427.3	437.8
67.5°	273.6	316.8	363.1	397.8	406.2
70°	236.8	282.1	332.6	366.3	376.8
72.5°	203.1	248.4	301.0	335.7	346.3
75°	167.3	216.8	269.4	304.2	316.8
77.5°	136.8	186.3	238.9	275.7	285.2
80°	104.2	155.8	210.5	246.3	256.8
82.5°	75.8	128.4	184.2	220.0	230.5
85°	51.6	104.2	160.0	195.8	206.3
87.5°	31.6	84.2	137.9	173.7	184.2
90°	14.5	73.6	137.0	175.8	187.8
92.5°	35.2	85.1	142.2	179.2	187.2
95°	56.1	102.4	160.1	195.7	206.2
97.5°	83.7	125.4	179.4	214.8	224.6
100°	112.2	150.4	202.6	235.3	247.4
102.5°	145.0	176.8	229.4	261.2	270.9
105°	178.3	205.1	257.1	286.6	297.6
107.5°	216.5	239.4	285.5	316.2	324.9
110°	251.7	272.2	315.8	346.1	353.0



TEST NUMBER: P1031963

CATALOG NUMBER: S123DIW-B775D755UB30-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	289.4	304.9	344.9	375.0	384.4
115°	326.2	341.0	377.4	403.4	411.1
117.5°	364.7	373.8	408.1	433.3	439.4
120°	399.0	408.9	439.8	463.2	469.1
122.5°	436.0	441.2	472.3	493.2	498.3
125°	472.8	475.1	504.0	523.1	527.4
127.5°	507.5	510.9	535.7	552.3	556.6
130°	542.2	547.2	566.0	583.0	584.0
132.5°	575.9	581.9	596.2	611.3	615.0
135°	611.4	614.9	625.6	641.6	645.3
137.5°	643.8	646.6	656.2	669.3	672.2
140°	676.8	680.6	684.4	699.5	699.5
142.5°	707.8	710.4	711.9	724.9	726.3
145°	740.2	740.6	742.9	750.5	751.7
147.5°	767.0	770.1	772.3	775.5	775.2
150°	796.5	798.0	799.5	799.5	797.1
152.5°	820.7	822.9	823.7	825.2	821.4
155°	846.3	846.3	847.1	850.1	844.8
157.5°	868.2	867.5	868.2	871.2	866.7
160°	888.6	887.1	887.1	890.9	887.8
162.5°	906.7	904.5	905.2	909.0	903.7
165°	921.8	919.6	919.6	924.1	918.8
167.5°	934.7	931.6	932.4	936.9	932.4
170°	945.2	942.2	942.2	947.5	942.2
172.5°	953.5	950.5	950.5	955.0	949.8
175°	958.8	955.8	955.8	960.3	955.0
177.5°	961.8	958.8	958.8	963.3	958.1
180°	961.1	961.1	961.1	961.1	961.1

(END OF REPORT)