

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: P1030993

Luminaire Tested: S123DIW-B775D460UB2750-4F0-XX-W2A-D_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1030993
REPORT IS A COMBINATION OF REPORTS P992059 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B775D460UB2750-4F0-XX-W2A-D_5000K
Description: Define 3 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

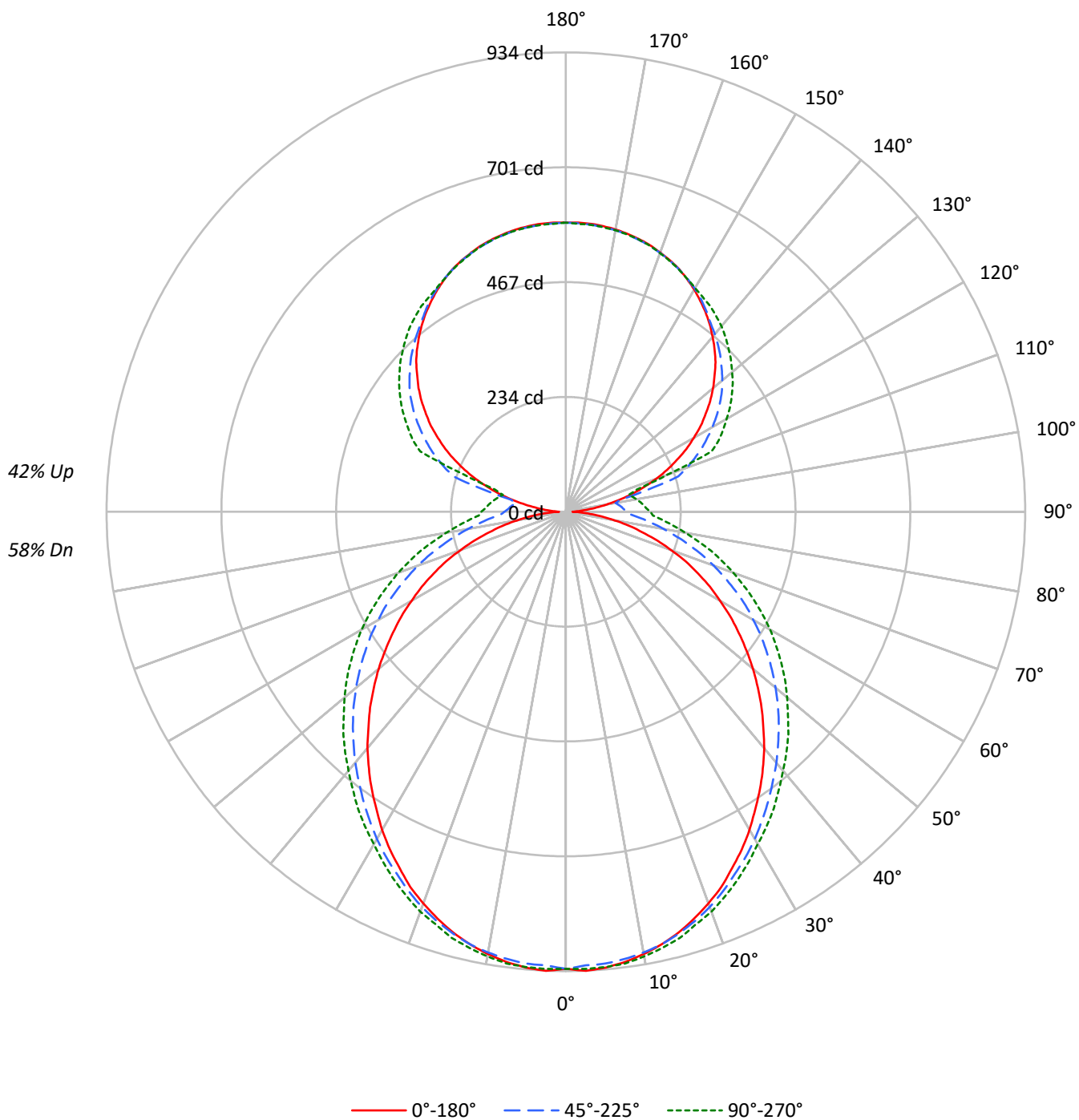
Lumens per Lamp: N/A
Luminaire Lumens: 4915.9 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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: P1030993

CATALOG NUMBER: S123DIW-B775D460UB2750-4F0-XX-W2A-D_5000K

Luminous Intensity Polar Plot



TEST NUMBER: P1030993

CATALOG NUMBER: S123DIW-B775D460UB2750-4F0-XX-W2A-D_5000K

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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64
1	98	93	89	85	91	87	83	80	75	72	70	64	62	60	54	53	51
2	89	81	74	69	83	76	70	65	65	61	57	56	52	49	47	45	42
3	81	71	63	57	75	66	59	53	57	52	47	49	45	41	41	38	36
4	74	62	54	48	68	58	51	45	51	45	40	43	39	35	37	33	30
5	68	56	47	41	63	52	44	38	45	39	34	39	34	30	33	29	26
6	62	50	41	35	58	47	39	33	41	34	30	35	30	26	30	26	23
7	58	45	37	31	54	42	35	29	37	31	26	32	27	23	27	23	20
8	54	41	33	27	50	38	31	26	34	28	23	29	24	21	25	21	18
9	50	37	29	24	46	35	28	23	31	25	21	27	22	19	23	19	16
10	47	34	27	22	43	32	25	21	28	23	19	25	20	17	21	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10002	10002	10002
5°	10030	9709	9701
10°	9936	9446	9374
15°	9804	9155	9027
20°	9618	8832	8654
25°	9388	8467	8268
30°	9152	8137	7880
35°	8889	7791	7564
40°	8637	7475	7231
45°	8358	7168	6956
50°	8082	6864	6658
55°	7777	6552	6384
60°	7478	6234	6102
65°	7170	5895	5773
70°	6708	5515	5434
75°	6121	5079	5083
80°	5440	4642	4684
85°	4764	4286	4397

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8358 cd/sqm

TEST NUMBER: P1030993

CATALOG NUMBER: S123DIW-B775D460UB2750-4F0-XX-W2A-D_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	1.8
10°-20°	251.3	5.1
20°-30°	375.8	7.6
30°-40°	448.7	9.1
40°-50°	469.4	9.5
50°-60°	440.5	9.0
60°-70°	368.0	7.5
70°-80°	263.1	5.4
80°-90°	157.7	3.2
90°-100°	119.1	2.4
100°-110°	172.5	3.5
110°-120°	293.8	6.0
120°-130°	339.3	6.9
130°-140°	345.4	7.0
140°-150°	314.0	6.4
150°-160°	251.2	5.1
160°-170°	162.1	3.3
170°-180°	55.9	1.1
0°-30°	715.2	14.5
0°-40°	1163.9	23.7
0°-60°	2073.9	42.2
0°-90°	2862.7	58.2
90°-120°	585.4	11.9
90°-150°	1584.1	32.2
90°-180°	2053.0	41.8
0°-180°	4915.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	929	929	929	929	929	
5°	930	928	922	930	929	88
15°	886	889	888	898	897	250
25°	800	810	813	826	826	369
35°	688	704	718	733	737	430
45°	563	587	612	632	640	434
55°	429	463	499	526	534	384
65°	297	336	381	411	421	293
75°	161	208	259	292	305	172
85°	50	100	154	188	198	51
90°	14	68	125	161	172	11
95°	38	59	114	148	158	40
105°	138	167	172	123	133	146
115°	249	264	304	333	343	246
125°	347	351	382	404	412	310
135°	430	432	445	464	468	331
145°	495	497	498	507	511	310
155°	544	544	544	546	544	251
165°	574	573	572	576	573	162
175°	588	586	586	589	586	56
180°	588	588	588	588	588	

TEST NUMBER: P1030993

CATALOG NUMBER: S123DIW-B775D460UB2750-4F0-XX-W2A-D_5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	929.2	929.2	929.2	929.2	929.2
2.5°	934.3	931.3	923.2	931.3	930.3
5°	930.3	928.2	922.2	930.3	929.2
7.5°	923.2	923.2	917.1	927.2	926.2
10°	913.1	915.1	910.0	920.1	918.1
12.5°	900.9	903.9	900.9	910.0	908.0
15°	885.7	888.8	887.7	897.9	896.9
17.5°	867.5	873.6	872.6	881.7	879.6
20°	847.3	853.3	855.4	864.5	865.5
22.5°	826.0	832.1	835.1	847.3	846.2
25°	799.7	809.8	812.8	826.0	826.0
27.5°	774.4	785.5	791.6	802.7	803.7
30°	747.0	760.2	768.3	780.4	780.4
32.5°	716.7	731.9	743.0	756.2	759.2
35°	688.3	704.5	717.7	732.9	736.9
37.5°	658.0	676.2	691.4	708.6	711.6
40°	627.6	645.8	666.1	683.3	687.3
42.5°	594.2	617.5	638.7	658.0	664.0
45°	562.8	587.1	612.4	631.6	639.7
47.5°	529.4	556.7	585.1	606.3	612.4
50°	497.0	525.4	556.7	580.0	587.1
52.5°	462.6	493.0	528.4	552.7	561.8
55°	429.2	462.6	499.0	526.4	534.5
57.5°	396.8	431.2	470.7	498.0	507.1
60°	362.4	398.8	440.3	468.7	479.8
62.5°	330.0	367.4	412.0	440.3	450.5
65°	296.6	336.1	380.6	411.0	421.1
67.5°	263.2	304.7	349.2	382.6	390.7
70°	227.8	271.3	319.9	352.3	362.4
72.5°	195.4	238.9	289.5	322.9	333.0
75°	160.9	208.5	259.1	292.5	304.7
77.5°	131.6	179.2	229.8	265.2	274.3
80°	100.2	149.8	202.5	236.9	247.0
82.5°	72.9	123.5	177.1	211.6	221.7
85°	49.6	100.2	153.9	188.3	198.4
87.5°	30.4	81.0	132.6	167.0	177.1
90°	13.6	67.6	124.9	161.0	172.0
92.5°	22.1	63.1	117.7	154.1	163.6
95°	37.7	59.3	113.7	148.2	158.3
97.5°	58.6	82.8	108.1	142.0	152.5
100°	82.9	124.0	102.5	135.3	145.8
102.5°	110.7	144.7	114.3	128.2	139.3
105°	138.2	167.3	171.5	122.6	132.6
107.5°	166.5	191.6	239.7	199.8	151.7
110°	194.7	216.4	261.7	273.6	219.3

TEST NUMBER: P1030993

CATALOG NUMBER: S123DIW-B775D460UB2750-4F0-XX-W2A-D_5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	222.7	239.8	283.1	312.4	320.6
115°	249.2	263.9	304.2	332.9	342.8
117.5°	276.3	287.4	324.0	351.8	360.3
120°	300.1	309.1	343.8	370.6	377.7
122.5°	325.4	330.5	363.7	388.1	395.6
125°	347.1	350.6	381.7	403.8	411.8
127.5°	369.8	372.3	399.8	421.4	427.6
130°	390.8	393.3	415.3	436.2	441.5
132.5°	409.8	413.3	429.9	449.8	455.6
135°	430.4	432.0	444.8	464.4	468.1
137.5°	447.8	450.3	458.3	476.7	480.9
140°	464.3	466.9	471.2	488.2	492.4
142.5°	480.5	482.1	483.4	497.9	501.6
145°	495.3	497.4	498.2	507.2	511.2
147.5°	508.7	510.9	511.8	515.6	517.6
150°	521.8	523.1	524.0	524.9	525.6
152.5°	533.6	534.0	534.5	536.2	534.0
155°	544.5	543.7	544.1	546.3	543.7
157.5°	553.3	553.3	552.8	555.4	551.9
160°	561.1	560.7	560.2	562.9	559.8
162.5°	568.5	567.2	566.8	569.9	567.2
165°	574.2	572.9	572.5	576.0	572.9
167.5°	579.0	577.3	577.3	580.8	577.3
170°	583.0	581.2	581.2	584.7	581.2
172.5°	585.6	583.4	583.8	587.3	583.4
175°	587.8	585.6	586.0	589.1	585.6
177.5°	588.6	586.4	586.9	590.4	586.0
180°	587.8	587.8	587.8	587.8	587.8

(END OF REPORT)