

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: P1030839

Luminaire Tested: S123DIW-B340D460UB2750-4F0-XX-W2A-D1_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1030839
REPORT IS A COMBINATION OF REPORTS P991393 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B340D460UB2750-4F0-XX-W2A-D1_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

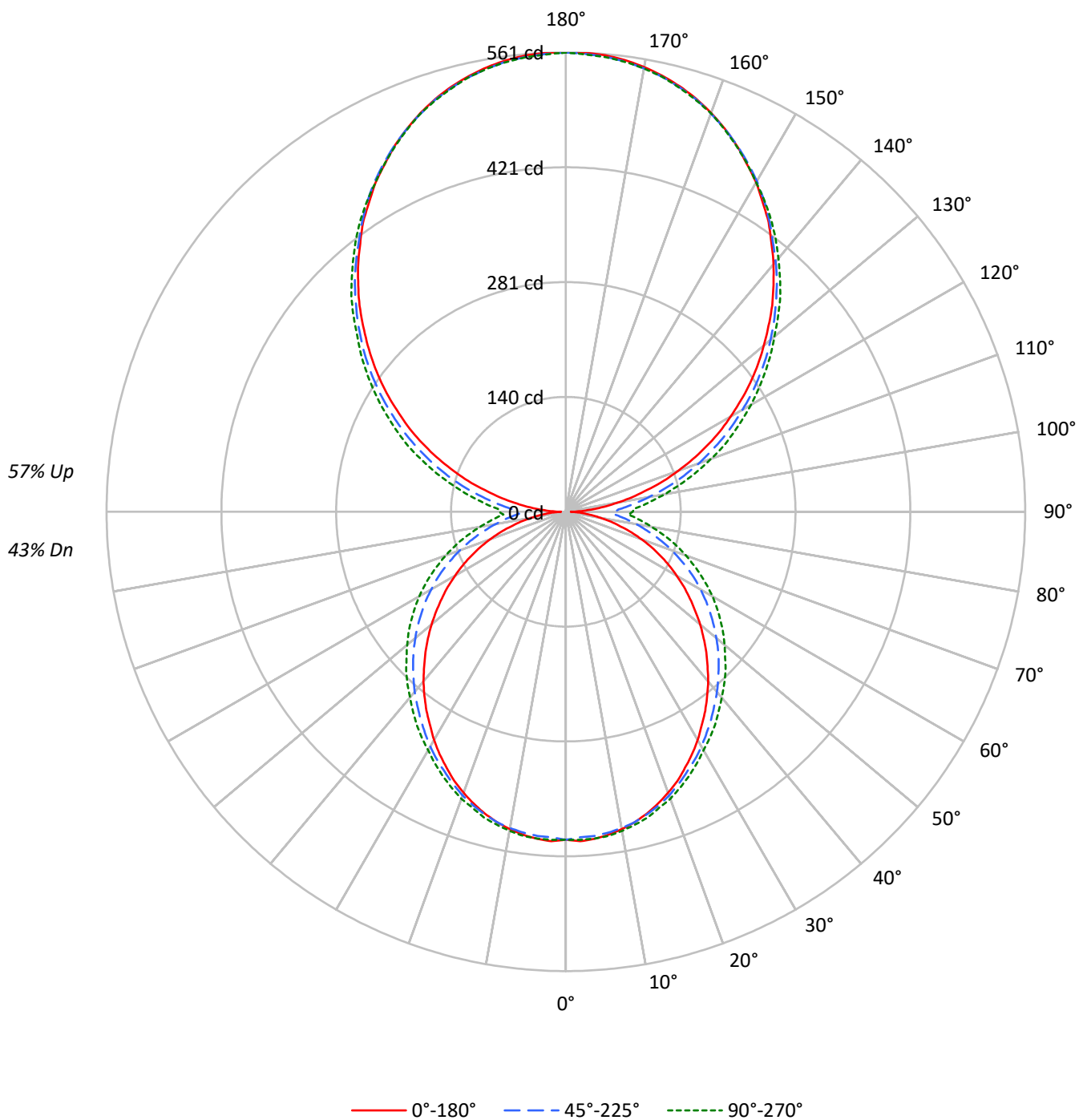
Lumens per Lamp: N/A
Luminaire Lumens: 2901.0 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 26.2
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: P1030839

CATALOG NUMBER: S123DIW-B340D460UB2750-4F0-XX-W2A-D1_5000K

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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49
1	95	91	86	83	87	83	79	76	68	65	63	55	53	51	42	41	40
2	86	79	72	67	78	72	66	62	59	55	52	47	44	42	37	35	33
3	79	69	61	55	71	63	56	51	52	47	43	42	38	35	32	30	28
4	72	61	52	46	65	55	48	43	46	40	36	37	33	30	29	26	23
5	66	54	46	39	60	49	42	37	41	35	31	33	29	26	26	23	20
6	60	48	40	34	55	44	37	32	37	31	27	30	26	22	23	20	18
7	56	43	35	30	51	40	33	28	33	28	24	27	23	20	21	18	16
8	52	39	31	26	47	36	29	24	30	25	21	25	20	17	19	16	14
9	48	36	28	23	44	33	26	22	28	22	19	23	18	16	18	15	13
10	45	33	25	21	41	30	24	19	25	20	17	21	17	14	17	14	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4311	4311	4311
5°	4322	4184	4181
10°	4282	4071	4040
15°	4225	3946	3890
20°	4146	3807	3730
25°	4047	3649	3563
30°	3945	3507	3397
35°	3832	3358	3260
40°	3723	3222	3116
45°	3603	3089	2998
50°	3483	2959	2869
55°	3352	2824	2752
60°	3223	2687	2630
65°	3089	2540	2488
70°	2892	2377	2342
75°	2640	2190	2191
80°	2345	2001	2020
85°	2056	1846	1895

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3603 cd/sqm

TEST NUMBER: P1030839

CATALOG NUMBER: S123DIW-B340D460UB2750-4F0-XX-W2A-D1_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.0	1.3
10°-20°	108.3	3.7
20°-30°	162.0	5.6
30°-40°	193.4	6.7
40°-50°	202.3	7.0
50°-60°	189.9	6.5
60°-70°	158.6	5.5
70°-80°	113.4	3.9
80°-90°	68.7	2.4
90°-100°	78.5	2.7
100°-110°	140.4	4.8
110°-120°	206.8	7.1
120°-130°	256.6	8.8
130°-140°	280.4	9.7
140°-150°	271.5	9.4
150°-160°	227.7	7.8
160°-170°	151.6	5.2
170°-180°	53.1	1.8
0°-30°	308.3	10.6
0°-40°	501.6	17.3
0°-60°	893.8	30.8
0°-90°	1234.5	42.6
90°-120°	425.7	14.7
90°-150°	1234.2	42.5
90°-180°	1666.0	57.4
0°-180°	2901.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	400	400	400	400	400	
5°	401	400	397	401	400	38
15°	382	383	383	387	386	108
25°	345	349	350	356	356	159
35°	297	304	309	316	318	186
45°	243	253	264	272	276	187
55°	185	199	215	227	230	166
65°	128	145	164	177	182	126
75°	69	90	112	126	131	74
85°	21	43	66	81	86	22
90°	6	32	60	76	82	6
95°	31	51	76	91	96	32
105°	103	114	137	149	154	110
115°	189	196	211	222	225	188
125°	275	277	288	296	297	246
135°	356	358	363	369	370	275
145°	432	432	434	436	436	270
155°	494	494	494	496	493	227
165°	538	536	536	539	536	152
175°	560	558	558	560	557	53
180°	561	561	561	561	561	

TEST NUMBER: P1030839

CATALOG NUMBER: S123DIW-B340D460UB2750-4F0-XX-W2A-D1_5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	400.5	400.5	400.5	400.5	400.5
2.5°	402.7	401.4	397.9	401.4	400.9
5°	400.9	400.1	397.4	400.9	400.5
7.5°	397.9	397.9	395.3	399.6	399.2
10°	393.5	394.4	392.2	396.6	395.7
12.5°	388.3	389.6	388.3	392.2	391.3
15°	381.7	383.1	382.6	387.0	386.5
17.5°	373.9	376.5	376.1	380.0	379.1
20°	365.2	367.8	368.7	372.6	373.0
22.5°	356.0	358.6	359.9	365.2	364.7
25°	344.7	349.0	350.3	356.0	356.0
27.5°	333.8	338.6	341.2	346.0	346.4
30°	322.0	327.6	331.1	336.4	336.4
32.5°	308.9	315.4	320.2	325.9	327.2
35°	296.7	303.6	309.3	315.9	317.6
37.5°	283.6	291.4	298.0	305.4	306.7
40°	270.5	278.3	287.1	294.5	296.2
42.5°	256.1	266.1	275.3	283.6	286.2
45°	242.6	253.0	263.9	272.2	275.7
47.5°	228.2	240.0	252.2	261.3	263.9
50°	214.2	226.4	240.0	250.0	253.0
52.5°	199.4	212.5	227.7	238.2	242.1
55°	185.0	199.4	215.1	226.9	230.4
57.5°	171.0	185.9	202.9	214.6	218.6
60°	156.2	171.9	189.8	202.0	206.8
62.5°	142.2	158.4	177.6	189.8	194.1
65°	127.8	144.8	164.0	177.1	181.5
67.5°	113.4	131.3	150.5	164.9	168.4
70°	98.2	116.9	137.9	151.8	156.2
72.5°	84.2	103.0	124.8	139.2	143.5
75°	69.4	89.9	111.7	126.1	131.3
77.5°	56.7	77.2	99.0	114.3	118.2
80°	43.2	64.6	87.3	102.1	106.5
82.5°	31.4	53.2	76.3	91.2	95.5
85°	21.4	43.2	66.3	81.1	85.5
87.5°	13.1	34.9	57.2	72.0	76.3
90°	6.1	31.8	59.9	76.4	81.7
92.5°	18.4	39.9	64.3	80.0	83.0
95°	30.8	50.9	75.8	91.1	95.5
97.5°	47.1	65.0	88.2	103.5	107.3
100°	63.8	80.5	102.8	116.7	122.0
102.5°	83.2	96.8	119.4	133.1	136.9
105°	102.6	114.0	136.7	148.9	153.7
107.5°	125.1	134.7	154.3	167.4	170.9
110°	145.8	154.5	172.8	186.0	188.6

TEST NUMBER: P1030839

CATALOG NUMBER: S123DIW-B340D460UB2750-4F0-XX-W2A-D1_5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	167.8	174.3	190.9	204.0	207.9
115°	189.4	195.9	210.8	221.7	224.8
117.5°	211.9	215.8	229.7	240.2	242.4
120°	232.1	236.9	249.1	258.8	260.9
122.5°	253.7	256.3	269.0	277.2	279.0
125°	275.3	276.6	288.4	295.8	297.1
127.5°	295.6	297.8	307.8	313.9	315.2
130°	315.8	319.0	326.3	332.9	332.4
132.5°	335.7	339.2	344.8	350.5	351.3
135°	356.4	358.5	362.9	369.0	370.4
137.5°	375.3	377.0	381.5	386.3	387.1
140°	394.7	396.9	398.6	404.8	403.9
142.5°	412.7	414.5	415.4	420.7	420.7
145°	431.7	432.1	433.5	436.5	436.5
147.5°	447.6	449.3	450.6	451.9	451.1
150°	464.7	465.6	466.5	466.5	464.8
152.5°	478.8	480.2	480.6	481.5	479.3
155°	493.8	493.8	494.3	496.0	492.9
157.5°	506.6	506.2	506.6	508.4	505.7
160°	518.5	517.6	517.6	519.8	518.0
162.5°	529.1	527.7	528.2	530.4	527.3
165°	537.9	536.5	536.5	539.2	536.1
167.5°	545.4	543.6	544.0	546.7	544.0
170°	551.5	549.8	549.8	552.8	549.8
172.5°	556.4	554.6	554.6	557.3	554.2
175°	559.5	557.7	557.7	560.3	557.3
177.5°	561.2	559.5	559.5	562.1	559.0
180°	560.8	560.8	560.8	560.8	560.8

(END OF REPORT)