

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: P1030932

Luminaire Tested: S123DIW-B560D755UB2750-4F0-XX-W2A-D_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1030932
REPORT IS A COMBINATION OF REPORTS P991793 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B560D755UB2750-4F0-XX-W2A-D_3500K
Description: Define 3 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

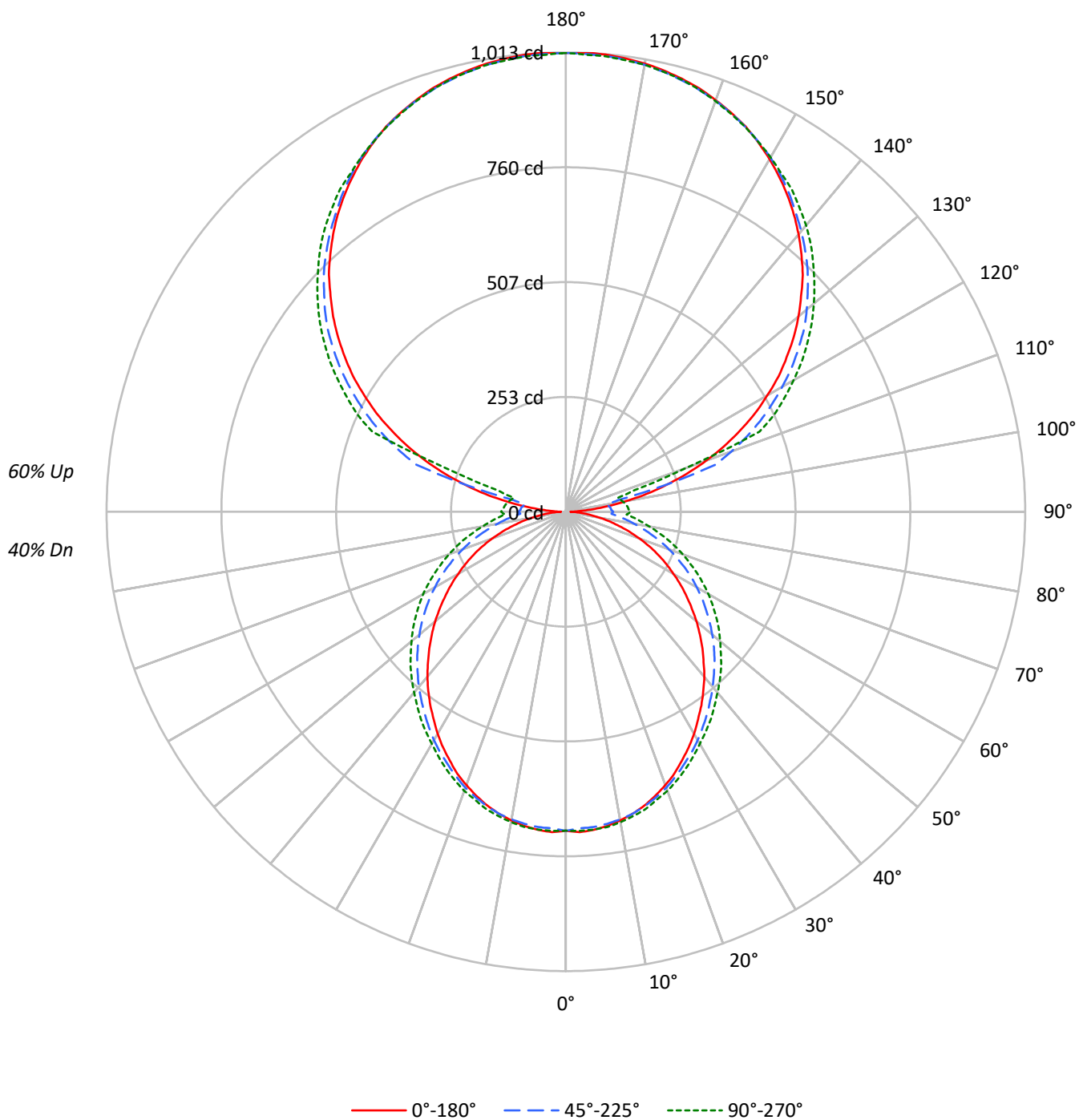
Lumens per Lamp: N/A
Luminaire Lumens: 5451.0 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 47.2
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

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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	50	30	10
RCR																				
0	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47			40
1	95	90	86	82	86	82	78	75	67	64	62	53	51	49	40	39	38			32
2	86	78	72	66	78	71	66	61	58	54	51	46	43	41	35	33	31			26
3	78	68	61	55	71	62	56	51	51	46	42	40	37	34	30	28	26			22
4	71	60	52	46	64	55	48	43	45	40	36	36	32	29	27	24	22			18
5	65	54	45	39	59	49	42	36	40	35	30	32	28	25	24	21	19			16
6	60	48	40	34	54	44	37	31	36	31	26	29	25	22	22	19	17			14
7	55	43	35	29	50	39	32	27	33	27	23	26	22	19	20	17	15			12
8	51	39	31	26	46	36	29	24	30	24	20	24	20	17	18	15	13			11
9	48	35	28	23	43	33	26	21	27	22	18	22	18	15	17	14	12			10
10	45	32	25	20	40	30	23	19	25	20	16	20	16	14	16	13	11			9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7571	7571	7571
5°	7592	7349	7343
10°	7521	7150	7096
15°	7422	6930	6833
20°	7280	6686	6550
25°	7106	6410	6259
30°	6929	6160	5965
35°	6728	5898	5726
40°	6539	5658	5474
45°	6327	5426	5266
50°	6117	5196	5039
55°	5887	4961	4832
60°	5660	4719	4619
65°	5427	4462	4371
70°	5077	4173	4113
75°	4633	3846	3847
80°	4121	3512	3546
85°	3602	3244	3329

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6327 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	1.2
10°-20°	190.2	3.5
20°-30°	284.5	5.2
30°-40°	339.6	6.2
40°-50°	355.4	6.5
50°-60°	333.5	6.1
60°-70°	278.5	5.1
70°-80°	199.2	3.7
80°-90°	120.5	2.2
90°-100°	110.2	2.0
100°-110°	227.3	4.2
110°-120°	459.3	8.4
120°-130°	557.6	10.2
130°-140°	582.7	10.7
140°-150°	538.1	9.9
150°-160°	432.5	7.9
160°-170°	279.1	5.1
170°-180°	96.2	1.8
0°-30°	541.4	9.9
0°-40°	881.0	16.2
0°-60°	1569.9	28.8
0°-90°	2168.1	39.8
90°-120°	796.8	14.6
90°-150°	2475.2	45.4
90°-180°	3283.0	60.2
0°-180°	5451.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	703	703	703	703	703	
5°	704	703	698	704	703	67
15°	670	673	672	680	679	189
25°	605	613	615	625	625	279
35°	521	533	543	555	558	326
45°	426	444	464	478	484	329
55°	325	350	378	398	405	291
65°	224	254	288	311	319	222
75°	122	158	196	221	231	130
85°	38	76	116	142	150	39
90°	11	56	105	134	143	10
95°	54	53	99	128	136	61
105°	230	257	222	110	119	244
115°	424	438	472	498	507	419
125°	595	601	626	644	650	532
135°	739	743	754	770	772	569
145°	852	856	858	865	868	533
155°	938	936	937	940	936	432
165°	989	986	986	992	986	279
175°	1012	1008	1009	1014	1008	96
180°	1012	1012	1012	1012	1012	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	703.4	703.4	703.4	703.4	703.4
2.5°	707.2	704.9	698.8	704.9	704.2
5°	704.2	702.6	698.0	704.2	703.4
7.5°	698.8	698.8	694.2	701.9	701.1
10°	691.1	692.7	688.8	696.5	695.0
12.5°	682.0	684.3	682.0	688.8	687.3
15°	670.5	672.8	672.0	679.7	678.9
17.5°	656.7	661.3	660.5	667.4	665.9
20°	641.3	645.9	647.5	654.4	655.1
22.5°	625.3	629.8	632.1	641.3	640.6
25°	605.3	613.0	615.3	625.3	625.3
27.5°	586.2	594.6	599.2	607.6	608.4
30°	565.5	575.4	581.6	590.8	590.8
32.5°	542.5	554.0	562.4	572.4	574.7
35°	521.0	533.3	543.3	554.8	557.8
37.5°	498.1	511.8	523.3	536.4	538.7
40°	475.1	488.9	504.2	517.2	520.3
42.5°	449.8	467.4	483.5	498.1	502.7
45°	426.0	444.4	463.6	478.1	484.3
47.5°	400.7	421.4	442.9	459.0	463.6
50°	376.2	397.7	421.4	439.1	444.4
52.5°	350.2	373.2	400.0	418.4	425.3
55°	324.9	350.2	377.8	398.4	404.6
57.5°	300.4	326.4	356.3	377.0	383.9
60°	274.3	301.9	333.3	354.8	363.2
62.5°	249.8	278.1	311.9	333.3	341.0
65°	224.5	254.4	288.1	311.1	318.8
67.5°	199.2	230.6	264.4	289.6	295.8
70°	172.4	205.4	242.1	266.7	274.3
72.5°	147.9	180.8	219.1	244.4	252.1
75°	121.8	157.8	196.2	221.4	230.6
77.5°	99.6	135.6	173.9	200.8	207.7
80°	75.9	113.4	153.2	179.3	187.0
82.5°	55.2	93.5	134.1	160.1	167.8
85°	37.5	75.9	116.5	142.5	150.2
87.5°	23.0	61.3	100.4	126.4	134.1
90°	10.8	55.8	104.6	133.7	142.9
92.5°	26.5	54.9	100.0	130.5	138.2
95°	54.3	53.3	99.2	128.2	135.9
97.5°	91.2	97.6	95.4	124.3	132.7
100°	134.0	173.5	91.5	119.7	128.1
102.5°	182.8	214.0	117.7	114.3	123.5
105°	230.1	256.8	222.1	110.5	118.9
107.5°	279.8	302.7	345.4	250.3	158.7
110°	329.4	349.2	388.1	383.3	281.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	377.5	393.5	430.8	456.8	462.2
115°	424.1	437.8	472.1	498.1	507.2
117.5°	470.7	482.1	511.9	536.3	543.2
120°	512.8	523.4	550.9	574.6	580.0
122.5°	556.4	563.2	590.0	610.6	616.7
125°	594.7	600.7	625.9	643.6	650.5
127.5°	633.8	639.0	662.0	679.6	683.4
130°	669.9	675.1	693.5	711.0	714.1
132.5°	703.7	709.7	723.5	740.3	743.4
135°	739.0	742.8	754.2	770.3	771.8
137.5°	769.1	774.4	781.2	797.3	799.6
140°	798.5	803.0	807.5	822.0	824.3
142.5°	826.3	830.0	832.3	844.5	846.1
145°	851.9	856.3	857.8	865.4	868.5
147.5°	875.9	879.6	881.1	884.9	884.3
150°	898.4	900.7	902.2	903.7	902.9
152.5°	918.7	919.5	920.2	923.2	919.5
155°	937.5	936.0	936.8	940.5	936.0
157.5°	952.5	952.5	951.8	956.3	950.3
160°	966.1	965.3	964.6	969.1	963.8
162.5°	978.9	976.6	975.9	981.1	976.6
165°	988.6	986.4	985.6	991.6	986.4
167.5°	996.9	993.9	993.9	999.9	993.9
170°	1003.7	1000.7	1000.7	1006.7	1000.7
172.5°	1008.2	1004.4	1005.2	1011.2	1004.4
175°	1011.9	1008.2	1008.9	1014.2	1008.2
177.5°	1013.4	1009.7	1010.4	1016.4	1008.9
180°	1011.9	1011.9	1011.9	1011.9	1011.9

(END OF REPORT)