

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: P1030934

Luminaire Tested: S123DIW-B560D755UB2750-4F0-XX-W2A-F1_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1030934
REPORT IS A COMBINATION OF REPORTS P991796 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-F1_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

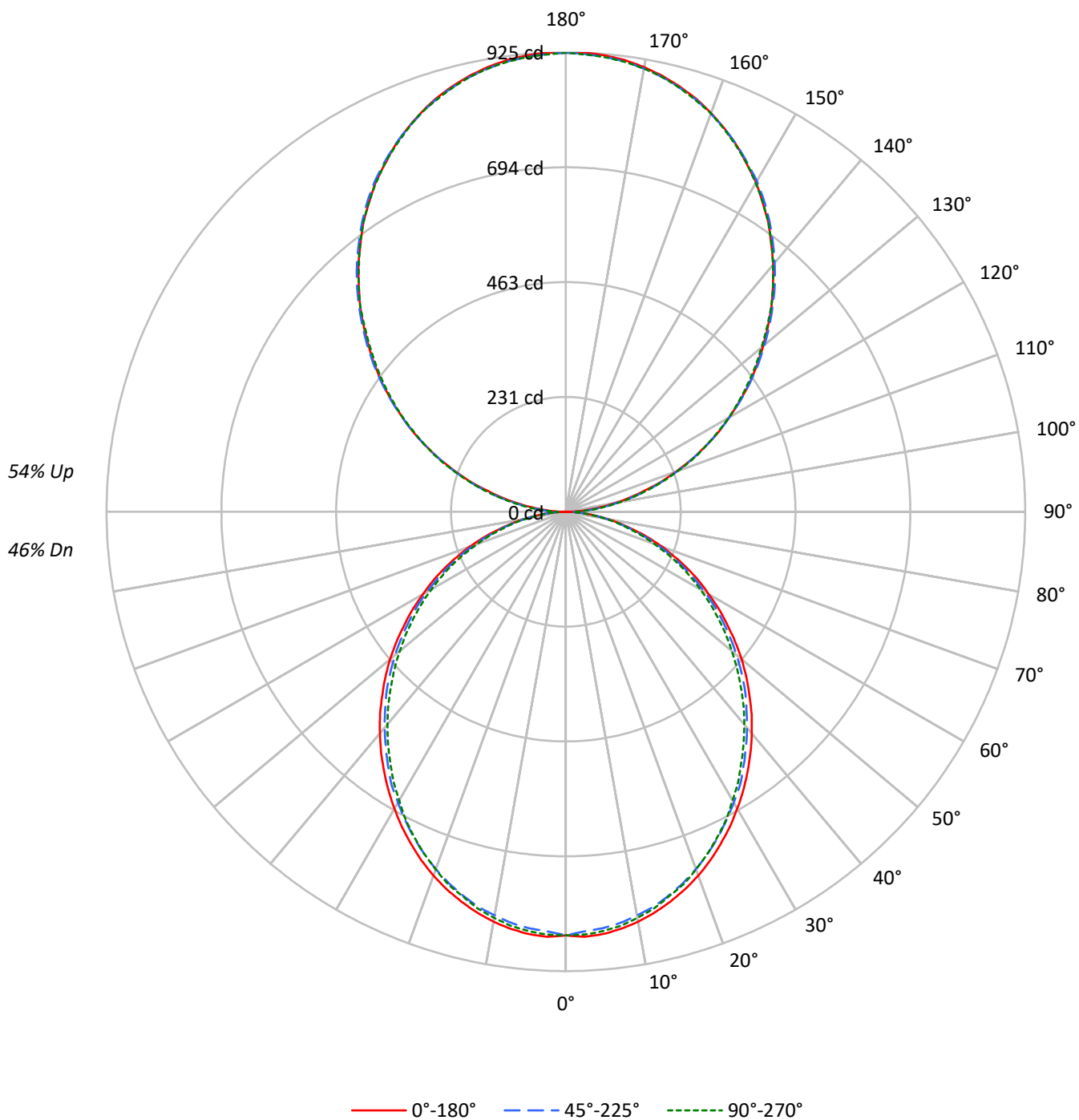
Lumens per Lamp: N/A
Luminaire Lumens: 4783.0 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P1030934

CATALOG NUMBER: S123DIW-B560D755UB2750-4F0-XX-W2A-F1_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	50	30	10
RCR																				
0	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53			46
1	97	93	89	85	89	85	82	79	71	69	67	58	57	55	47	46	45			39
2	88	81	75	70	81	74	69	65	62	58	55	51	49	46	41	39	37			33
3	80	71	64	58	74	65	59	54	55	50	46	45	42	39	36	34	32			28
4	74	63	55	49	67	58	51	46	49	44	39	40	36	33	32	30	27			24
5	68	56	48	42	62	52	45	39	44	38	34	36	32	29	29	26	24			21
6	62	50	42	36	57	46	39	34	39	34	30	33	28	25	26	23	21			18
7	57	45	37	32	53	42	35	30	36	30	26	30	25	22	24	21	19			16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	17			14
9	50	37	30	25	46	35	28	23	30	24	21	25	21	18	20	17	15			13
10	46	34	27	22	43	32	25	21	27	22	19	23	19	16	19	16	14			12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9182	9182	9182
5°	9204	8865	8852
10°	9122	8564	8477
15°	8996	8253	8069
20°	8851	7906	7664
25°	8663	7541	7232
30°	8457	7162	6776
35°	8241	6776	6324
40°	8015	6370	5880
45°	7767	5975	5415
50°	7514	5535	4949
55°	7190	5075	4476
60°	6857	4569	3974
65°	6541	4021	3449
70°	6090	3413	2837
75°	5440	2703	2202
80°	4696	1900	1557
85°	3660	1022	780

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7767 cd/sqm

TEST NUMBER: P1030934

CATALOG NUMBER: S123DIW-B560D755UB2750-4F0-XX-W2A-F1_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.4	1.7
10°-20°	227.1	4.7
20°-30°	335.4	7.0
30°-40°	391.7	8.2
40°-50°	393.8	8.2
50°-60°	345.9	7.2
60°-70°	257.6	5.4
70°-80°	146.6	3.1
80°-90°	43.6	0.9
90°-100°	59.5	1.2
100°-110°	180.1	3.8
110°-120°	306.6	6.4
120°-130°	403.3	8.4
130°-140°	453.4	9.5
140°-150°	445.7	9.3
150°-160°	375.2	7.8
160°-170°	249.8	5.2
170°-180°	87.5	1.8
0°-30°	642.8	13.4
0°-40°	1034.5	21.6
0°-60°	1774.1	37.1
0°-90°	2222.0	46.5
90°-120°	546.2	11.4
90°-150°	1848.5	38.6
90°-180°	2561.0	53.5
0°-180°	4783.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	853	853	853	853	853	
5°	854	850	842	849	848	81
15°	813	810	800	806	802	229
25°	738	734	724	725	722	340
35°	638	634	624	620	616	399
45°	523	520	510	502	498	404
55°	397	396	386	378	375	355
65°	271	267	260	254	252	267
75°	143	140	138	134	132	153
85°	38	37	37	35	35	41
90°	1	8	17	20	22	6
95°	43	48	54	57	57	47
105°	163	165	171	171	173	175
115°	309	311	309	310	309	305
125°	452	454	452	449	446	403
135°	586	590	590	587	585	451
145°	711	712	714	714	711	444
155°	814	814	815	818	812	375
165°	886	884	884	889	884	250
175°	922	919	919	924	918	88
180°	924	924	924	924	924	

TEST NUMBER: P1030934

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	853.0	853.0	853.0	853.0	853.0
2.5°	856.7	853.7	845.7	853.0	852.3
5°	853.7	850.1	842.0	849.3	847.9
7.5°	847.1	843.5	835.4	842.0	841.3
10°	838.3	834.7	825.1	831.7	830.3
12.5°	826.6	823.7	814.9	819.3	818.5
15°	812.7	809.7	800.2	806.1	801.7
17.5°	797.3	793.6	784.1	788.5	787.0
20°	779.7	775.3	765.7	768.7	766.5
22.5°	759.9	755.5	745.9	748.1	745.2
25°	737.9	733.5	723.9	724.7	722.5
27.5°	715.1	710.7	700.4	701.2	699.0
30°	690.2	686.5	676.2	676.2	671.1
32.5°	665.2	660.1	652.8	647.6	645.4
35°	638.1	633.7	624.2	619.8	616.1
37.5°	611.0	605.1	595.6	590.4	588.2
40°	582.4	578.0	567.7	561.8	558.9
42.5°	553.8	548.6	538.4	532.5	529.6
45°	523.0	520.0	510.5	501.7	498.0
47.5°	492.9	488.5	479.7	470.9	467.9
50°	462.1	458.4	448.9	440.8	436.4
52.5°	429.8	427.6	417.3	410.7	406.3
55°	396.8	396.1	386.5	378.5	374.8
57.5°	366.0	363.1	355.7	348.4	344.0
60°	332.3	331.5	322.7	316.1	312.5
62.5°	302.2	300.0	291.2	284.6	282.4
65°	270.6	267.0	259.6	253.8	251.6
67.5°	236.9	234.0	228.1	223.0	220.0
70°	206.8	202.4	198.0	192.9	189.2
72.5°	175.3	172.4	167.2	162.8	161.4
75°	143.0	140.1	137.9	134.2	132.0
77.5°	114.4	113.0	110.0	107.1	107.1
80°	86.5	84.3	82.9	82.1	82.1
82.5°	59.4	59.4	59.4	57.9	57.2
85°	38.1	36.7	36.7	35.2	35.2
87.5°	19.1	16.9	16.1	15.4	15.4
90°	0.7	8.0	17.4	20.3	21.8
92.5°	21.8	26.1	30.5	32.7	31.2
95°	42.8	47.9	53.7	56.6	56.6
97.5°	70.4	74.1	78.4	82.0	81.3
100°	98.7	103.1	106.7	108.9	110.4
102.5°	131.4	133.6	138.7	140.9	140.1
105°	163.4	164.8	171.4	171.4	172.8
107.5°	201.1	201.8	204.8	206.9	206.2
110°	236.0	237.4	238.9	241.8	240.3

TEST NUMBER: P1030934

CATALOG NUMBER: S123DIW-B560D755UB2750-4F0-XX-W2A-F1_5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	272.3	273.0	273.0	276.6	276.6
115°	308.6	310.8	309.3	310.0	309.3
117.5°	345.6	346.3	344.9	344.9	342.7
120°	379.7	384.1	380.5	379.7	378.3
122.5°	415.3	418.2	416.8	414.6	412.4
125°	451.6	453.8	452.3	449.4	446.5
127.5°	485.0	489.4	487.9	483.6	480.7
130°	518.4	524.2	522.0	519.1	514.1
132.5°	551.8	557.6	556.2	552.5	548.9
135°	585.9	590.3	589.6	586.7	585.2
137.5°	617.2	620.8	623.0	619.3	617.2
140°	649.8	653.5	654.2	653.5	648.4
142.5°	679.6	683.2	684.7	684.0	680.3
145°	710.8	712.3	714.5	713.7	710.8
147.5°	737.7	740.6	742.8	742.8	738.4
150°	766.0	767.5	768.9	768.9	764.6
152.5°	789.2	791.4	792.1	793.6	790.0
155°	813.9	813.9	814.7	817.6	812.5
157.5°	835.0	834.3	835.0	837.9	833.5
160°	854.6	853.1	853.1	856.8	853.9
162.5°	872.0	869.8	870.6	874.2	869.1
165°	886.5	884.4	884.4	888.7	883.6
167.5°	898.9	896.0	896.7	901.1	896.7
170°	909.0	906.1	906.1	911.2	906.1
172.5°	917.0	914.1	914.1	918.5	913.4
175°	922.1	919.2	919.2	923.6	918.5
177.5°	925.0	922.1	922.1	926.5	921.4
180°	924.3	924.3	924.3	924.3	924.3

(END OF REPORT)