

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: P1031211

Luminaire Tested: S123RDIW-B560D755UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031211
REPORT IS A COMBINATION OF REPORTS P994571 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B560D755UB2750-4F0-XX-W2A-F_3000K
Description: Define 3 Regressed Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

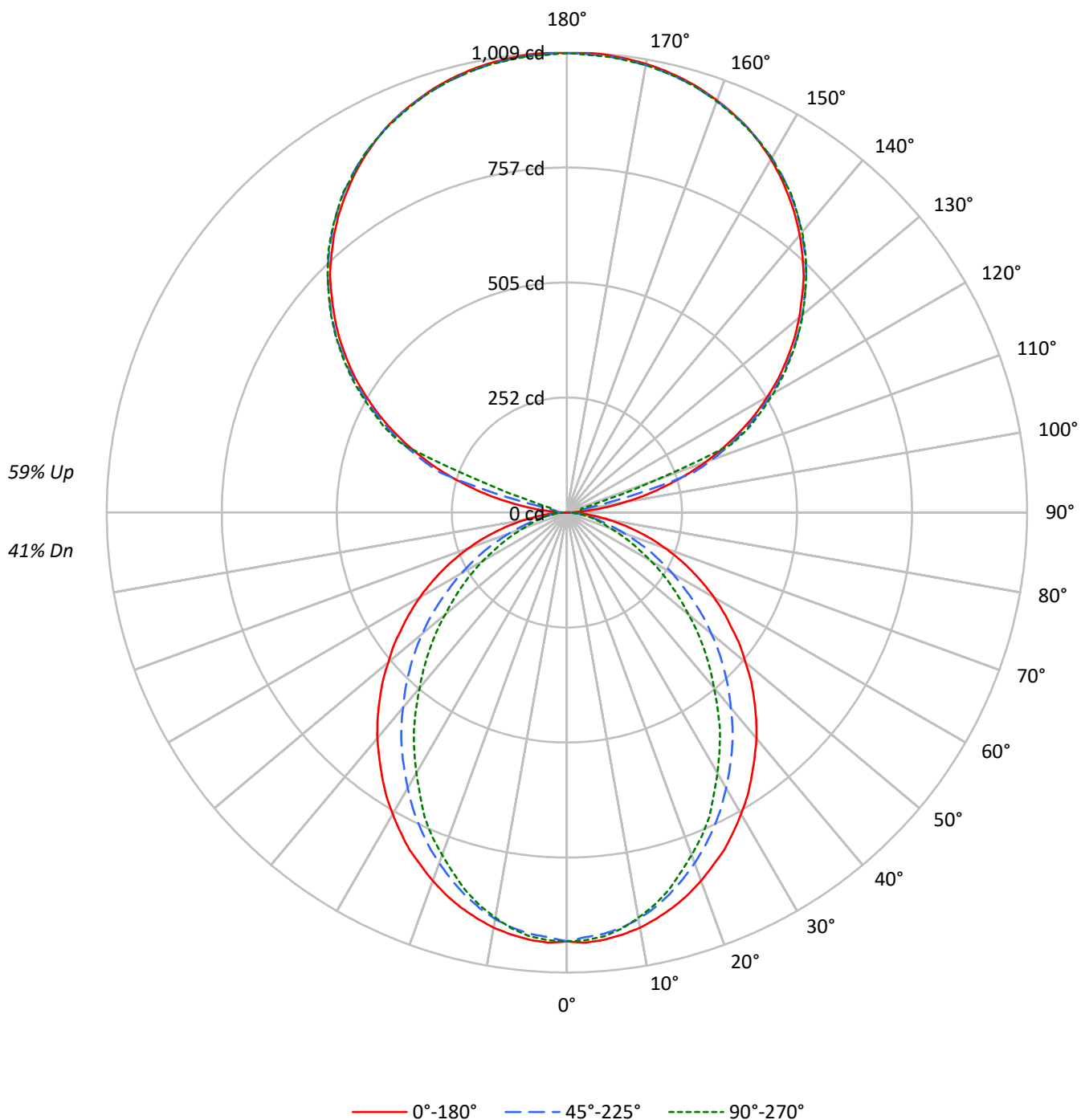
Lumens per Lamp: N/A
Luminaire Lumens: 5199.0 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1031211

CATALOG NUMBER: S123RDIW-B560D755UB2750-4F0-XX-W2A-F_3000K

Luminous Intensity Polar Plot



TEST NUMBER: P1031211

CATALOG NUMBER: S123RDIW-B560D755UB2750-4F0-XX-W2A-F_3000K

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	78	78	78	62	62	62	48	48	48
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	43	42	41
2	88	80	75	70	80	74	69	64	61	57	54	49	46	44	38	36	35
3	80	71	64	58	73	65	59	54	54	49	46	43	40	38	34	32	30
4	73	63	55	49	67	58	51	46	48	43	39	39	35	32	30	28	26
5	67	56	48	42	61	52	45	40	43	38	34	35	31	28	27	25	23
6	62	50	42	37	56	46	39	34	39	33	30	32	28	25	25	22	20
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18
8	53	41	34	29	49	38	31	27	32	27	23	26	22	20	21	18	16
9	50	38	30	25	45	35	28	24	29	24	21	24	20	18	19	17	15
10	46	35	27	23	42	32	26	21	27	22	19	22	19	16	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10125	10125	10125
5°	10141	9766	9740
10°	10061	9399	9214
15°	9930	8946	8638
20°	9759	8451	7994
25°	9583	7939	7384
30°	9356	7393	6663
35°	9123	6857	6006
40°	8903	6275	5281
45°	8621	5706	4629
50°	8311	5098	3953
55°	7989	4447	3335
60°	7682	3780	2706
65°	7284	3096	2113
70°	6785	2341	1510
75°	6063	1586	1196
80°	5179	1103	838
85°	3881	596	439

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8621 cd/sqm

TEST NUMBER: P1031211

CATALOG NUMBER: S123RDIW-B560D755UB2750-4F0-XX-W2A-F_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	1.7
10°-20°	246.0	4.7
20°-30°	354.2	6.8
30°-40°	398.8	7.7
40°-50°	381.5	7.3
50°-60°	312.3	6.0
60°-70°	210.6	4.1
70°-80°	105.6	2.0
80°-90°	29.6	0.6
90°-100°	35.5	0.7
100°-110°	171.8	3.3
110°-120°	421.0	8.1
120°-130°	534.5	10.3
130°-140°	571.0	11.0
140°-150°	533.9	10.3
150°-160°	430.6	8.3
160°-170°	277.9	5.3
170°-180°	95.8	1.8
0°-30°	688.6	13.2
0°-40°	1087.4	20.9
0°-60°	1781.2	34.3
0°-90°	2127.0	40.9
90°-120°	628.3	12.1
90°-150°	2267.7	43.6
90°-180°	3072.0	59.1
0°-180°	5199.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	941	941	941	941	941	
5°	941	937	928	934	933	89
15°	897	889	867	864	858	253
25°	816	797	762	746	738	375
35°	706	679	632	599	585	442
45°	580	546	488	444	426	448
55°	441	404	339	294	279	395
65°	301	259	200	162	154	298
75°	159	123	81	73	72	170
85°	40	24	21	20	20	44
90°	1	8	18	21	22	5
95°	46	15	23	28	28	55
105°	223	231	164	31	33	237
115°	418	423	430	437	440	413
125°	590	596	599	600	602	527
135°	734	739	742	744	742	565
145°	848	853	854	856	856	531
155°	934	932	933	937	932	430
165°	984	982	982	988	982	278
175°	1008	1004	1005	1010	1004	96
180°	1008	1008	1008	1008	1008	

TEST NUMBER: P1031211

CATALOG NUMBER: S123RDIW-B560D755UB2750-4F0-XX-W2A-F_3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	940.6	940.6	940.6	940.6	940.6
2.5°	944.4	941.4	932.2	940.6	939.1
5°	940.6	936.8	927.6	934.5	933.0
7.5°	933.7	929.9	918.5	923.1	920.8
10°	924.6	919.2	905.5	906.3	902.5
12.5°	911.6	905.5	888.0	887.2	882.6
15°	897.1	888.7	867.4	863.6	858.2
17.5°	879.6	870.4	843.7	836.1	828.5
20°	859.7	847.5	818.5	808.6	799.5
22.5°	837.6	823.1	791.8	778.9	770.5
25°	816.3	797.2	762.1	746.1	737.7
27.5°	790.3	769.7	731.6	710.2	697.3
30°	763.6	740.7	698.0	672.1	659.9
32.5°	736.9	710.2	664.5	635.5	622.5
35°	706.4	678.9	631.6	598.8	585.1
37.5°	675.9	646.1	596.6	559.9	543.2
40°	646.9	613.3	559.2	519.5	502.0
42.5°	614.1	580.5	524.1	479.8	464.6
45°	580.5	546.2	487.5	444.0	425.7
47.5°	547.7	509.6	451.6	404.3	388.3
50°	511.1	475.3	413.5	366.2	348.6
52.5°	478.3	438.6	377.6	328.0	312.8
55°	440.9	403.6	338.7	294.5	279.2
57.5°	407.4	366.9	301.3	259.4	246.4
60°	372.3	330.3	267.0	225.8	212.8
62.5°	337.2	295.2	231.9	193.8	180.0
65°	301.3	259.4	199.9	162.5	154.1
67.5°	265.5	222.8	164.8	136.6	127.4
70°	230.4	189.2	135.8	109.1	100.7
72.5°	195.3	154.9	107.6	87.0	84.7
75°	159.4	122.8	80.9	73.2	71.7
77.5°	126.6	93.1	63.3	58.7	57.2
80°	95.4	64.1	48.1	45.8	44.2
82.5°	65.6	39.7	34.3	32.0	32.0
85°	40.4	23.6	21.4	19.8	19.8
87.5°	18.3	9.9	9.9	9.2	8.4
90°	0.7	8.2	18.0	21.0	22.5
92.5°	17.2	12.7	19.5	24.7	25.5
95°	45.7	15.0	23.2	28.4	28.4
97.5°	83.1	62.1	24.0	29.9	30.7
100°	126.5	141.5	24.7	30.7	31.4
102.5°	175.9	185.7	55.4	30.7	32.2
105°	223.1	231.3	164.0	31.4	32.9
107.5°	273.3	280.0	291.2	175.9	77.9
110°	323.4	329.4	337.6	312.9	205.9

TEST NUMBER: P1031211

CATALOG NUMBER: S123RDIW-B560D755UB2750-4F0-XX-W2A-F_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	371.3	376.6	384.8	391.5	390.0
115°	418.5	423.0	429.7	437.2	440.2
117.5°	464.9	470.1	473.9	479.9	480.6
120°	507.6	514.3	516.6	522.6	522.6
122.5°	551.0	556.2	559.2	563.0	563.7
125°	589.9	595.9	598.9	600.4	601.9
127.5°	628.9	634.9	638.6	640.8	639.3
130°	664.8	670.8	673.8	676.8	675.3
132.5°	699.2	705.2	707.5	710.5	708.2
135°	734.4	738.9	741.9	744.2	741.9
137.5°	764.4	770.4	771.9	775.6	774.1
140°	794.3	798.8	801.1	804.0	802.5
142.5°	822.0	826.5	828.8	831.0	828.8
145°	847.5	852.7	854.2	855.7	855.7
147.5°	872.2	875.9	877.4	878.9	875.2
150°	894.6	896.9	898.4	899.9	897.6
152.5°	914.8	915.6	916.3	919.3	915.6
155°	933.6	932.1	932.8	936.6	932.1
157.5°	948.5	948.5	947.8	952.3	946.3
160°	962.0	961.3	960.5	965.0	959.8
162.5°	974.7	972.5	971.7	977.0	972.5
165°	984.5	982.2	981.5	987.5	982.2
167.5°	992.7	989.7	989.7	995.7	989.7
170°	999.4	996.4	996.4	1002.4	996.4
172.5°	1003.9	1000.2	1000.9	1006.9	1000.2
175°	1007.7	1003.9	1004.7	1009.9	1003.9
177.5°	1009.2	1005.4	1006.2	1012.2	1004.7
180°	1007.7	1007.7	1007.7	1007.7	1007.7

(END OF REPORT)