

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: P1030704

Luminaire Tested: S123DIW-B1000D755UB2750-4F0-XX-W2A-D1_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1030704
REPORT IS A COMBINATION OF REPORTS P990799 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B1000D755UB2750-4F0-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

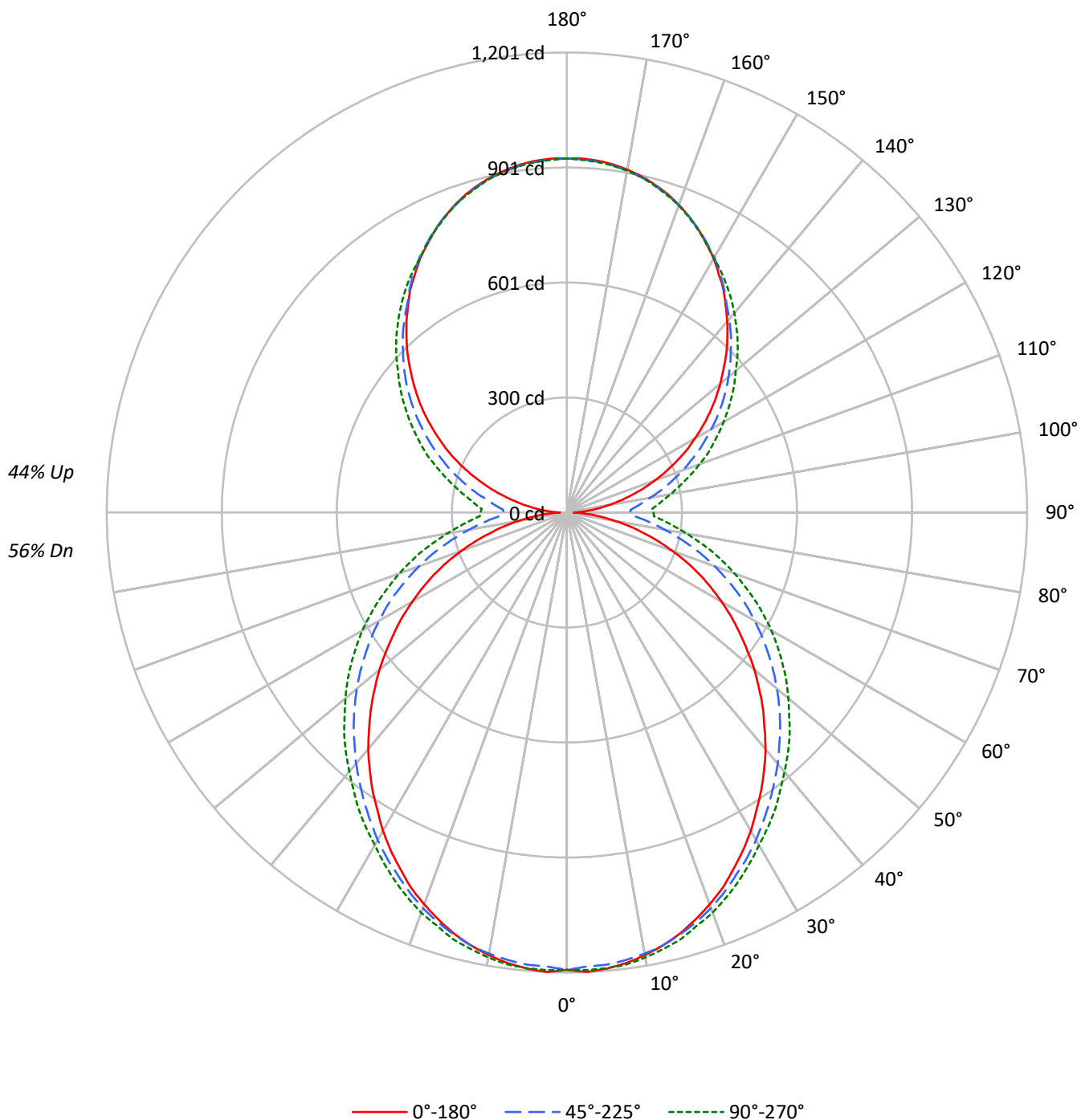
Lumens per Lamp: N/A
Luminaire Lumens: 6576.0 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 70
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
RCR																	
0	109	109	109	109	101	101	101	101	87	87	87		74	74	74		62
1	98	93	89	85	91	86	83	79	74	71	69		63	61	59		53
2	89	81	74	68	82	75	69	64	64	60	56		55	51	48		46
3	81	70	63	56	74	66	59	53	56	51	47		48	44	40		40
4	74	62	54	47	68	58	50	45	50	44	39		42	38	34		36
5	68	55	47	40	62	52	44	38	45	38	34		38	33	30		32
6	62	49	41	35	57	46	39	33	40	34	29		34	29	26		29
7	57	45	36	31	53	42	34	29	36	30	26		31	26	23		26
8	53	41	32	27	49	38	31	26	33	27	23		28	24	20		24
9	50	37	29	24	46	35	28	23	30	24	20		26	21	18		22
10	46	34	26	21	43	32	25	20	28	22	18		24	20	16		21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12853	12853	12853
5°	12888	12476	12466
10°	12768	12138	12046
15°	12598	11764	11599
20°	12358	11349	11120
25°	12064	10880	10624
30°	11761	10457	10127
35°	11423	10011	9720
40°	11100	9605	9292
45°	10740	9211	8939
50°	10386	8821	8555
55°	9993	8421	8203
60°	9609	8011	7840
65°	9213	7575	7418
70°	8620	7085	6983
75°	7867	6528	6532
80°	6993	5962	6019
85°	6119	5505	5650

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10740 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.3	1.7
10°-20°	322.9	4.9
20°-30°	482.9	7.3
30°-40°	576.5	8.8
40°-50°	603.2	9.2
50°-60°	566.1	8.6
60°-70°	472.8	7.2
70°-80°	338.1	5.1
80°-90°	203.1	3.1
90°-100°	185.9	2.8
100°-110°	273.0	4.2
110°-120°	368.6	5.6
120°-130°	438.7	6.7
130°-140°	469.2	7.1
140°-150°	449.0	6.8
150°-160°	375.3	5.7
160°-170°	249.8	3.8
170°-180°	87.5	1.3
0°-30°	919.1	14.0
0°-40°	1495.6	22.7
0°-60°	2664.9	40.5
0°-90°	3679.0	55.9
90°-120°	827.5	12.6
90°-150°	2184.5	33.2
90°-180°	2897.0	44.1
0°-180°	6576.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1194	1194	1194	1194	1194	
5°	1195	1193	1185	1195	1194	113
15°	1138	1142	1141	1154	1152	321
25°	1028	1041	1044	1061	1061	474
35°	884	905	922	942	947	553
45°	723	754	787	812	822	558
55°	552	594	641	676	687	494
65°	381	432	489	528	541	377
75°	207	268	333	376	392	221
85°	64	129	198	242	255	66
90°	18	89	164	212	226	15
95°	57	113	182	226	239	58
105°	174	206	269	305	318	185
115°	315	333	378	410	420	312
125°	456	458	494	518	524	407
135°	588	592	605	626	631	454
145°	712	712	714	724	726	445
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1194.1	1194.1	1194.1	1194.1	1194.1
2.5°	1200.6	1196.7	1186.3	1196.7	1195.4
5°	1195.4	1192.8	1185.0	1195.4	1194.1
7.5°	1186.3	1186.3	1178.5	1191.5	1190.2
10°	1173.3	1175.9	1169.4	1182.4	1179.8
12.5°	1157.6	1161.5	1157.6	1169.4	1166.8
15°	1138.1	1142.0	1140.7	1153.7	1152.4
17.5°	1114.7	1122.5	1121.2	1132.9	1130.3
20°	1088.7	1096.5	1099.1	1110.8	1112.1
22.5°	1061.4	1069.2	1073.1	1088.7	1087.4
25°	1027.6	1040.6	1044.5	1061.4	1061.4
27.5°	995.1	1009.4	1017.2	1031.5	1032.8
30°	959.9	976.8	987.3	1002.9	1002.9
32.5°	920.9	940.4	954.7	971.6	975.5
35°	884.5	905.3	922.2	941.7	946.9
37.5°	845.5	868.9	888.4	910.5	914.4
40°	806.5	829.9	855.9	878.0	883.2
42.5°	763.5	793.4	820.8	845.5	853.3
45°	723.2	754.4	786.9	811.7	822.1
47.5°	680.3	715.4	751.8	779.1	786.9
50°	638.7	675.1	715.4	745.3	754.4
52.5°	594.4	633.5	679.0	710.2	721.9
55°	551.5	594.4	641.3	676.4	686.8
57.5°	509.9	554.1	604.8	640.0	651.7
60°	465.7	512.5	565.8	602.2	616.5
62.5°	424.0	472.2	529.4	565.8	578.8
65°	381.1	431.8	489.1	528.1	541.1
67.5°	338.2	391.5	448.8	491.7	502.1
70°	292.7	348.6	411.0	452.7	465.7
72.5°	251.0	307.0	372.0	414.9	427.9
75°	206.8	267.9	333.0	375.9	391.5
77.5°	169.1	230.2	295.3	340.8	352.5
80°	128.8	192.5	260.1	304.4	317.4
82.5°	93.7	158.7	227.6	271.9	284.9
85°	63.7	128.8	197.7	241.9	254.9
87.5°	39.0	104.1	170.4	214.6	227.6
90°	17.6	88.6	164.4	211.5	226.0
92.5°	37.4	97.6	167.1	212.2	222.4
95°	57.1	112.9	182.5	225.7	238.7
97.5°	83.4	133.9	199.4	242.0	254.3
100°	110.4	156.4	219.9	259.8	274.3
102.5°	141.8	180.4	244.1	282.7	294.9
105°	173.8	206.4	269.0	305.4	318.5
107.5°	210.2	238.2	294.6	331.8	342.8
110°	243.8	268.6	322.1	358.9	367.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	280.1	299.0	348.4	384.6	396.3
115°	315.1	332.9	378.2	410.2	419.9
117.5°	352.1	363.2	406.0	437.3	445.5
120°	384.9	395.8	435.1	464.2	472.0
122.5°	420.5	426.0	464.9	491.3	498.2
125°	455.5	457.7	493.9	518.3	524.5
127.5°	488.9	492.0	523.0	544.7	550.9
130°	522.3	526.8	550.6	572.4	575.2
132.5°	554.4	560.2	578.3	598.0	603.5
135°	588.5	591.6	605.2	625.7	630.7
137.5°	619.8	622.1	633.4	650.5	654.9
140°	651.1	654.8	659.4	678.2	679.6
142.5°	680.9	683.2	684.7	700.9	703.7
145°	712.1	712.3	714.5	724.1	726.4
147.5°	737.7	740.6	742.8	746.7	747.5
150°	766.0	767.5	768.9	768.9	767.2
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)