

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: P1030693

Luminaire Tested: S123DIW-B1000D460UB2750-4F0-XX-W2A-D_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1030693
REPORT IS A COMBINATION OF REPORTS P990739 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B1000D460UB2750-4F0-XX-W2A-D_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

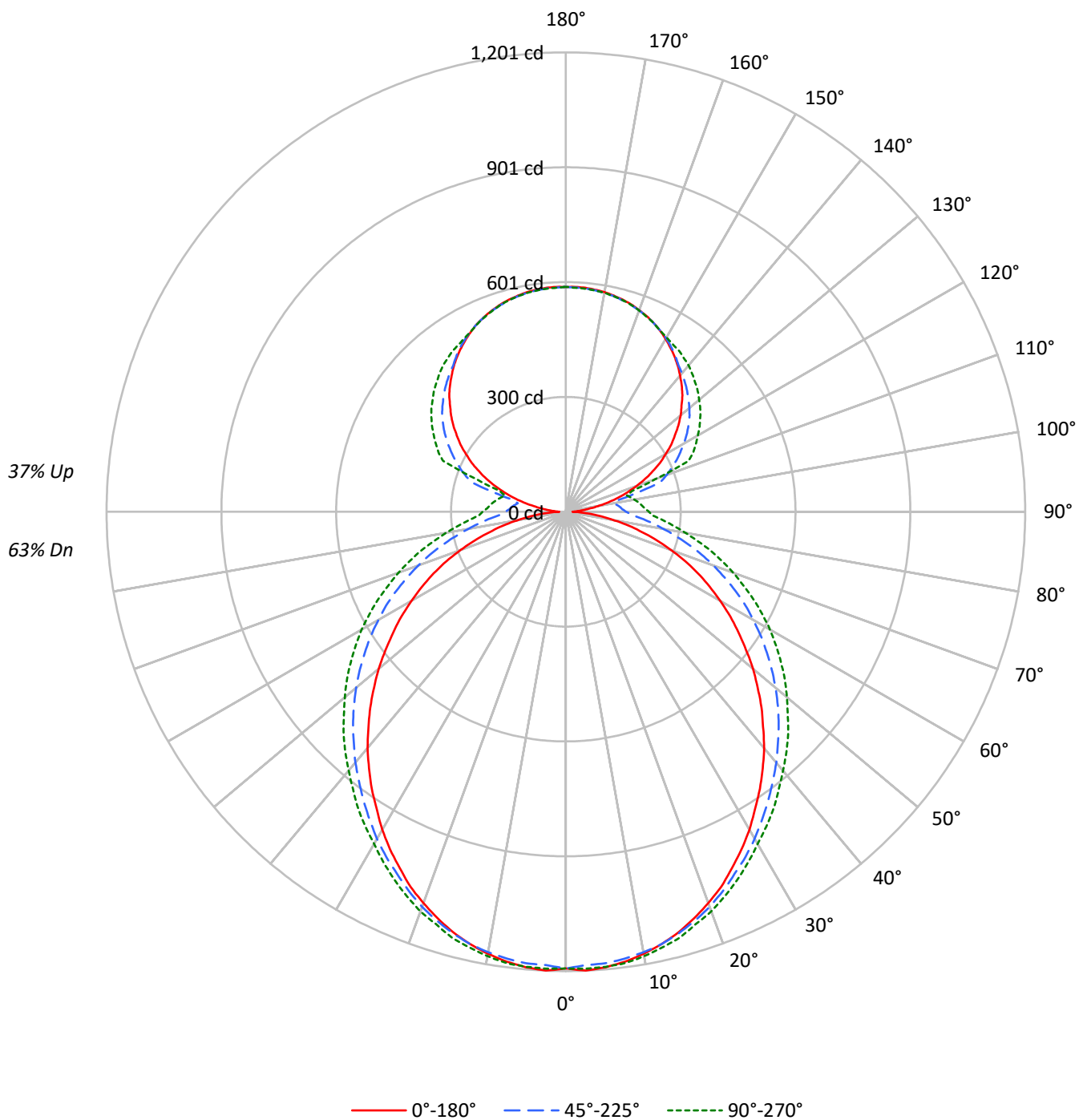
Lumens per Lamp: N/A
Luminaire Lumens: 5805.9 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 60
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
RCR																	
0	110	110	110	110	103	103	103	103	91	91	91	79	79	79	68	68	68
1	99	94	90	86	93	89	85	81	78	75	72	68	65	63	58	57	55
2	90	82	75	69	84	77	71	66	67	63	59	59	55	52	51	48	45
3	82	71	63	57	76	67	60	54	59	53	49	51	47	43	44	41	38
4	75	63	54	48	70	59	52	46	52	46	41	46	41	37	39	36	32
5	69	56	47	41	64	53	45	39	47	40	35	41	36	32	35	31	28
6	63	50	42	35	59	47	40	34	42	36	31	37	32	28	32	28	25
7	58	45	37	31	54	43	35	30	38	32	27	33	28	24	29	25	22
8	54	41	33	27	51	39	31	26	35	28	24	31	25	22	27	23	19
9	50	38	30	24	47	36	28	23	32	26	21	28	23	19	25	21	18
10	47	35	27	22	44	33	26	21	29	23	19	26	21	18	23	19	16

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	2.0
10°-20°	322.9	5.6
20°-30°	482.9	8.3
30°-40°	576.5	9.9
40°-50°	603.2	10.4
50°-60°	566.1	9.8
60°-70°	472.8	8.1
70°-80°	338.1	5.8
80°-90°	202.3	3.5
90°-100°	147.1	2.5
100°-110°	193.1	3.3
110°-120°	307.6	5.3
120°-130°	347.1	6.0
130°-140°	348.9	6.0
140°-150°	314.7	5.4
150°-160°	251.2	4.3
160°-170°	162.1	2.8
170°-180°	55.9	1.0
0°-30°	919.1	15.8
0°-40°	1495.6	25.8
0°-60°	2664.9	45.9
0°-90°	3678.2	63.4
90°-120°	647.9	11.2
90°-150°	1658.6	28.6
90°-180°	2128.0	36.7
0°-180°	5805.9	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°	17	85	158	203	217	14
95°	41	74	142	186	199	43
105°	140	176	193	152	165	148
115°	251	269	320	355	367	248
125°	348	352	391	419	429	311
135°	431	432	448	473	478	332
145°	496	497	498	510	515	310
155°	544	544	544	546	544	251
165°	574	573	572	576	573	162
175°	588	586	586	589	586	56
180°	588	588	588	588	588	

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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°	17.3	85.4	157.5	203.4	217.3
92.5°	25.6	78.9	148.0	193.9	206.0
95°	40.9	73.7	142.3	185.7	198.7
97.5°	61.5	96.0	135.0	177.5	190.9
100°	85.5	135.8	127.6	168.8	182.2
102.5°	113.0	155.1	137.7	159.7	173.6
105°	140.5	176.5	193.2	152.3	164.9
107.5°	168.5	199.7	259.7	227.5	182.0
110°	196.4	223.3	280.1	299.6	247.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	224.4	245.6	299.8	336.4	347.2
115°	250.6	268.8	319.5	355.2	367.4
117.5°	277.7	291.1	337.5	372.3	383.1
120°	301.3	311.7	355.9	389.3	398.5
122.5°	326.6	332.2	374.3	405.1	414.6
125°	348.0	351.5	390.9	419.1	429.1
127.5°	370.7	372.9	407.6	434.9	443.1
130°	391.7	393.9	421.6	448.0	455.0
132.5°	410.4	413.9	434.8	459.9	467.7
135°	431.0	432.3	448.3	473.0	478.2
137.5°	448.4	450.6	460.6	483.6	489.2
140°	464.6	467.2	472.4	493.7	499.3
142.5°	480.8	482.1	483.4	501.6	506.8
145°	495.6	497.4	498.2	509.5	514.7
147.5°	508.7	510.9	511.8	516.5	519.6
150°	521.8	523.1	524.0	524.9	526.2
152.5°	533.6	534.0	534.5	536.2	534.0
155°	544.5	543.7	544.1	546.3	543.7
157.5°	553.3	553.3	552.8	555.4	551.9
160°	561.1	560.7	560.2	562.9	559.8
162.5°	568.5	567.2	566.8	569.9	567.2
165°	574.2	572.9	572.5	576.0	572.9
167.5°	579.0	577.3	577.3	580.8	577.3
170°	583.0	581.2	581.2	584.7	581.2
172.5°	585.6	583.4	583.8	587.3	583.4
175°	587.8	585.6	586.0	589.1	585.6
177.5°	588.6	586.4	586.9	590.4	586.0
180°	587.8	587.8	587.8	587.8	587.8

(END OF REPORT)