

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: P1029460

Luminaire Tested: S122DIW-B485D1240UB2750-4F0-XX-W2A-D1_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029460
REPORT IS A COMBINATION OF REPORTS P985944 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B485D1240UB2750-4F0-XX-W2A-D1_3500K
Description: Define 2 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

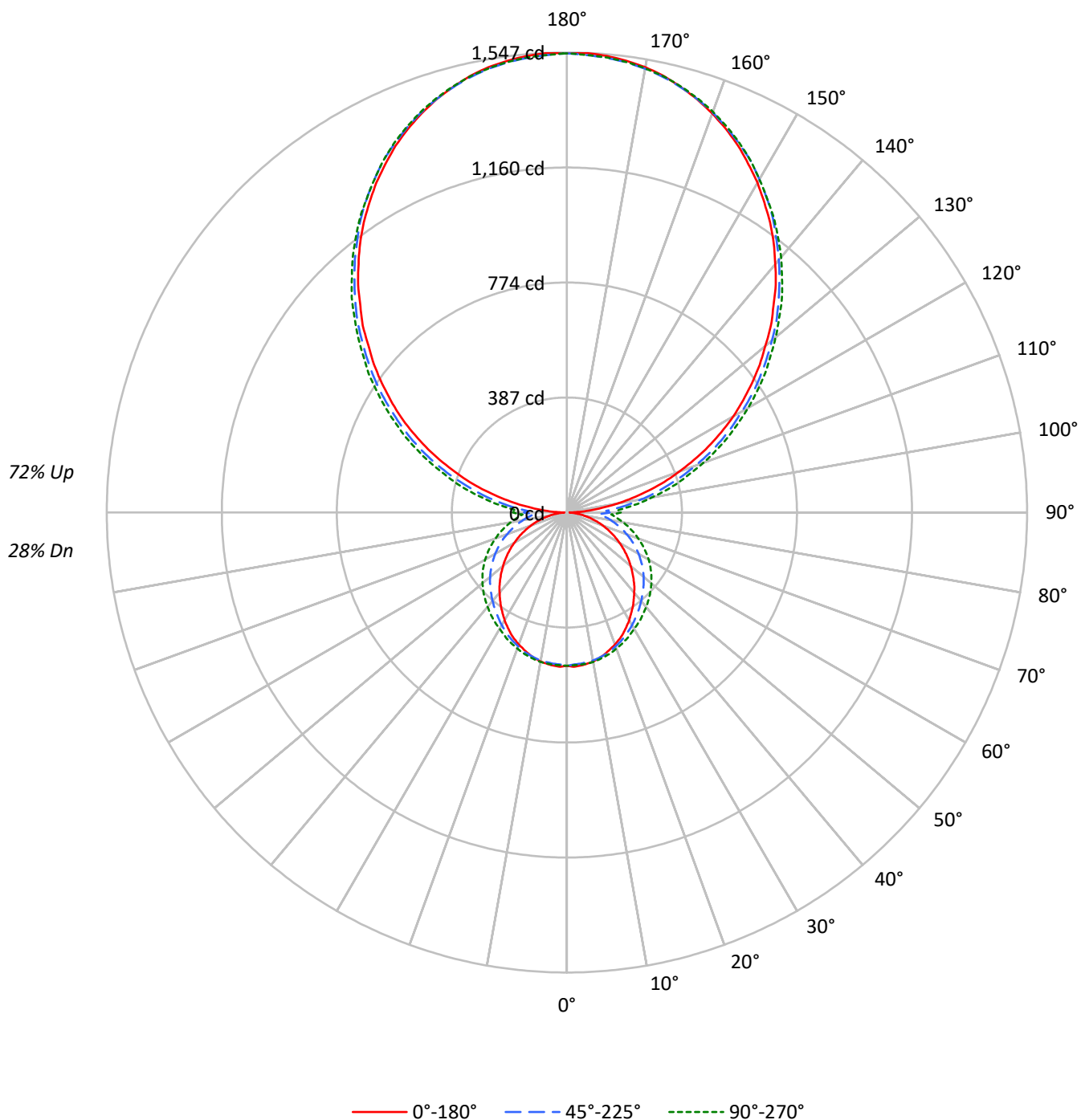
Lumens per Lamp: N/A
Luminaire Lumens: 6288.0 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 66.1
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: P1029460

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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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36
1	92	87	83	80	82	78	75	72	61	58	56	45	43	42	30	29	28
2	83	76	70	64	74	68	63	58	53	49	46	39	36	34	26	25	23
3	76	66	59	53	67	59	53	48	46	42	38	34	31	29	23	21	19
4	69	58	51	44	61	52	46	40	41	36	32	30	27	24	20	18	17
5	63	52	44	38	56	46	39	34	36	31	27	27	23	21	18	16	14
6	58	46	38	32	52	41	35	29	33	27	24	24	21	18	16	14	12
7	54	41	34	28	48	37	30	26	29	24	21	22	18	16	15	13	11
8	50	37	30	25	44	34	27	22	27	22	18	20	16	14	14	11	10
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	12	10	9
10	43	31	24	19	38	28	22	18	22	18	14	17	13	11	12	9	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8160	8160	8160
5°	8197	7812	7768
10°	8142	7541	7431
15°	8027	7262	7087
20°	7883	6968	6758
25°	7740	6686	6461
30°	7539	6400	6167
35°	7336	6125	5951
40°	7122	5886	5736
45°	6919	5670	5549
50°	6701	5470	5365
55°	6470	5260	5177
60°	6190	5039	4979
65°	5898	4784	4752
70°	5565	4513	4508
75°	5141	4240	4276
80°	4471	3958	4036
85°	3800	3690	3831

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6919 cd/sqm

TEST NUMBER: P1029460

CATALOG NUMBER: S122DIW-B485D1240UB2750-4F0-XX-W2A-D1_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	0.8
10°-20°	140.2	2.2
20°-30°	212.4	3.4
30°-40°	258.6	4.1
40°-50°	278.2	4.4
50°-60°	270.2	4.3
60°-70°	236.0	3.8
70°-80°	181.6	2.9
80°-90°	126.0	2.0
90°-100°	179.4	2.9
100°-110°	364.9	5.8
110°-120°	560.0	8.9
120°-130°	705.8	11.2
130°-140°	776.4	12.3
140°-150°	753.7	12.0
150°-160°	630.9	10.0
160°-170°	418.4	6.7
170°-180°	146.2	2.3
0°-30°	401.4	6.4
0°-40°	660.0	10.5
0°-60°	1208.5	19.2
0°-90°	1752.1	27.9
90°-120°	1104.3	17.6
90°-150°	3340.3	53.1
90°-180°	4536.0	72.1
0°-180°	6288.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	516	516	516	516	516	
5°	517	515	510	515	514	49
15°	493	495	495	501	501	139
25°	448	454	460	469	471	206
35°	386	399	413	430	435	241
45°	317	337	363	386	394	245
55°	243	270	309	336	345	217
65°	166	202	246	277	287	165
75°	92	134	182	214	223	97
85°	27	73	121	152	163	28
90°	9	68	144	172	182	10
95°	74	122	169	198	204	80
105°	284	309	351	380	388	300
115°	524	540	571	592	597	518
125°	760	772	792	808	813	679
135°	982	996	1006	1021	1023	759
145°	1191	1200	1208	1214	1212	744
155°	1362	1366	1369	1376	1372	627
165°	1481	1480	1480	1489	1483	418
175°	1541	1537	1535	1544	1536	146
180°	1544	1544	1544	1544	1544	

TEST NUMBER: P1029460

CATALOG NUMBER: S122DIW-B485D1240UB2750-4F0-XX-W2A-D1_3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	515.5	515.5	515.5	515.5	515.5
2.5°	519.2	517.0	511.8	515.5	514.0
5°	517.0	514.8	510.3	514.8	514.0
7.5°	513.3	511.8	508.0	513.3	512.5
10°	508.8	507.3	505.0	511.0	510.3
12.5°	501.3	502.1	500.6	506.5	505.8
15°	493.1	494.6	494.6	501.3	500.6
17.5°	482.6	485.6	487.9	494.6	494.6
20°	472.2	475.9	478.9	487.1	487.1
22.5°	461.0	465.5	469.9	478.2	479.6
25°	448.3	453.5	460.2	469.2	471.4
27.5°	433.3	441.5	449.0	460.2	461.7
30°	418.4	428.1	437.8	449.8	452.0
32.5°	401.9	413.2	425.1	439.3	443.8
35°	386.3	399.0	413.2	429.6	434.8
37.5°	369.1	383.3	401.2	419.1	424.4
40°	351.9	368.3	388.5	407.9	414.6
42.5°	335.5	351.9	375.8	397.5	404.2
45°	316.8	336.9	363.1	386.3	393.7
47.5°	298.8	320.5	350.4	374.3	382.5
50°	280.2	303.3	336.9	362.4	370.6
52.5°	262.2	286.9	322.8	348.9	357.9
55°	242.8	269.7	308.6	335.5	345.2
57.5°	224.1	254.0	292.9	322.0	331.7
60°	204.0	236.1	278.7	307.1	317.5
62.5°	186.0	219.7	262.2	292.9	302.6
65°	165.9	202.5	246.5	277.2	286.9
67.5°	147.9	186.0	230.9	261.5	271.9
70°	128.5	167.4	213.7	245.8	254.8
72.5°	110.6	150.9	198.0	229.4	240.6
75°	91.9	133.7	181.5	213.7	223.4
77.5°	74.0	117.3	165.9	198.0	208.4
80°	56.0	101.6	150.2	181.5	192.0
82.5°	41.1	85.9	135.2	166.6	176.3
85°	26.9	73.2	121.0	152.4	162.9
87.5°	16.4	61.3	109.1	139.7	149.4
90°	8.8	67.7	144.2	171.5	181.8
92.5°	35.4	85.4	132.3	162.7	171.7
95°	73.8	121.9	169.3	197.7	204.1
97.5°	118.6	162.5	211.0	238.6	247.6
100°	170.7	208.8	254.5	282.2	289.1
102.5°	224.7	257.1	302.7	330.9	337.8
105°	283.8	309.4	350.9	379.6	387.8
107.5°	343.8	367.0	404.3	431.0	432.7
110°	400.4	423.1	459.7	483.6	488.0

TEST NUMBER: P1029460

CATALOG NUMBER: S122DIW-B485D1240UB2750-4F0-XX-W2A-D1_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	462.9	482.6	515.7	535.7	541.3
115°	524.2	540.2	571.2	592.3	596.7
117.5°	584.6	601.0	625.9	644.4	648.0
120°	645.8	659.3	678.7	699.6	704.0
122.5°	701.9	715.7	736.8	753.1	757.2
125°	759.8	771.5	791.5	807.8	813.2
127.5°	817.1	830.7	845.6	859.1	861.9
130°	870.5	886.7	899.8	915.2	915.9
132.5°	930.5	942.7	955.3	965.9	968.0
135°	981.8	996.1	1006.2	1020.6	1022.7
137.5°	1039.1	1050.9	1057.3	1070.2	1070.1
140°	1089.9	1101.0	1109.0	1120.9	1120.2
142.5°	1142.1	1153.1	1157.0	1167.3	1165.8
145°	1190.9	1200.0	1207.8	1213.6	1212.1
147.5°	1235.2	1246.9	1252.1	1255.4	1252.5
150°	1280.8	1288.6	1293.8	1297.7	1293.8
152.5°	1321.2	1329.0	1335.5	1340.7	1335.5
155°	1361.5	1365.5	1369.4	1375.9	1372.0
157.5°	1396.7	1399.3	1401.9	1411.1	1404.5
160°	1428.0	1430.6	1431.9	1439.7	1434.5
162.5°	1456.7	1456.7	1458.0	1467.1	1460.6
165°	1481.4	1480.1	1480.1	1489.2	1482.7
167.5°	1503.6	1499.7	1499.7	1508.8	1502.3
170°	1520.5	1516.6	1515.3	1524.4	1516.6
172.5°	1532.2	1528.3	1527.0	1536.1	1528.3
175°	1541.3	1537.4	1534.8	1544.0	1536.1
177.5°	1546.6	1542.7	1540.0	1547.9	1540.0
180°	1544.0	1544.0	1544.0	1544.0	1544.0

(END OF REPORT)