

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: P1029490

Luminaire Tested: S122DIW-B485D1440UB2750-4F0-XX-W2A-D1_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029490
REPORT IS A COMBINATION OF REPORTS P986034 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B485D1440UB2750-4F0-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

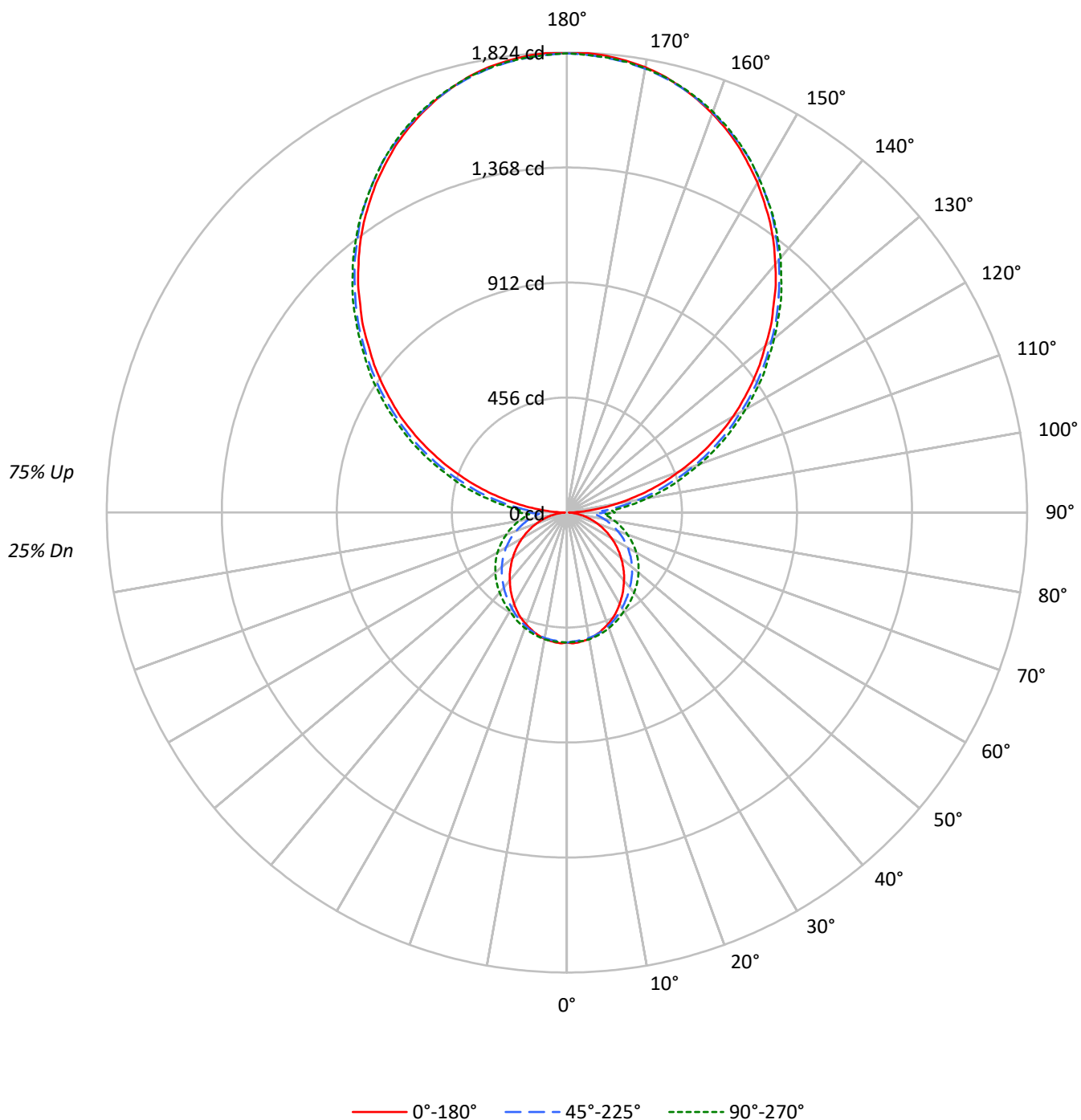
Lumens per Lamp: N/A
Luminaire Lumens: 7062.0 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 76.2
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

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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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33
1	91	87	83	79	81	77	74	71	59	57	55	43	42	40	28	27	26
2	83	75	69	64	73	67	62	58	52	48	45	37	35	33	24	23	22
3	75	66	59	53	67	59	53	48	45	41	37	33	30	28	21	19	18
4	69	58	50	44	61	52	45	40	40	35	32	29	26	23	19	17	15
5	63	51	43	38	56	46	39	34	36	31	27	26	23	20	17	15	13
6	58	46	38	32	51	41	34	29	32	27	23	23	20	17	15	13	11
7	53	41	33	28	47	37	30	25	29	24	20	21	18	15	14	12	10
8	49	37	30	24	44	33	27	22	26	21	18	19	16	13	13	10	9
9	46	34	27	22	40	30	24	20	24	19	16	17	14	12	12	9	8
10	43	31	24	19	38	28	22	17	22	17	14	16	13	11	11	9	7

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	0.7
10°-20°	140.2	2.0
20°-30°	212.4	3.0
30°-40°	258.6	3.7
40°-50°	278.2	3.9
50°-60°	270.2	3.8
60°-70°	236.0	3.3
70°-80°	181.6	2.6
80°-90°	126.8	1.8
90°-100°	196.5	2.8
100°-110°	419.3	5.9
110°-120°	653.0	9.2
120°-130°	828.2	11.7
130°-140°	913.8	12.9
140°-150°	888.4	12.6
150°-160°	743.9	10.5
160°-170°	493.4	7.0
170°-180°	172.4	2.4
0°-30°	401.4	5.7
0°-40°	660.0	9.3
0°-60°	1208.5	17.1
0°-90°	1752.9	24.8
90°-120°	1268.9	18.0
90°-150°	3899.3	55.2
90°-180°	5309.0	75.2
0°-180°	7062.0	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	71	152	179	190	10
95°	86	136	184	213	219	94
105°	334	360	402	432	440	353
115°	618	635	666	686	690	611
125°	896	910	929	944	950	801
135°	1158	1174	1185	1199	1201	895
145°	1404	1415	1424	1430	1428	877
155°	1605	1610	1615	1622	1618	739
165°	1747	1745	1745	1756	1748	493
175°	1817	1813	1810	1820	1811	173
180°	1820	1820	1820	1820	1820	

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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°	9.0	70.8	152.4	179.2	189.7
92.5°	40.5	92.4	139.5	170.2	179.2
95°	85.9	136.4	184.2	212.6	218.6
97.5°	138.9	184.9	234.3	261.9	270.9
100°	200.3	240.3	286.7	314.4	321.1
102.5°	264.1	298.0	344.5	372.9	379.6
105°	334.0	360.3	402.3	431.5	439.7
107.5°	404.7	428.8	466.1	493.1	493.6
110°	471.6	495.7	532.3	556.2	559.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	545.3	566.4	599.3	618.6	623.7
115°	617.5	634.9	665.5	686.3	690.0
117.5°	688.9	707.2	730.9	748.7	751.6
120°	761.1	776.4	794.0	814.9	818.6
122.5°	827.2	843.4	863.3	878.9	882.5
125°	895.6	909.5	928.7	944.3	949.5
127.5°	963.2	979.3	993.4	1005.9	1008.0
130°	1026.2	1045.4	1058.0	1072.9	1072.7
132.5°	1096.9	1111.4	1124.3	1133.7	1135.1
135°	1157.5	1174.4	1185.0	1199.2	1200.6
137.5°	1225.1	1239.0	1245.8	1258.5	1257.5
140°	1285.0	1298.2	1307.4	1319.3	1317.6
142.5°	1346.5	1359.6	1364.2	1374.8	1372.3
145°	1404.2	1414.9	1424.2	1430.2	1427.7
147.5°	1456.4	1470.2	1476.4	1480.2	1476.3
150°	1510.2	1519.4	1525.5	1530.2	1525.5
152.5°	1557.8	1567.0	1574.7	1580.9	1574.7
155°	1605.4	1610.0	1614.7	1622.3	1617.7
157.5°	1646.9	1650.0	1653.1	1663.8	1656.1
160°	1683.8	1686.9	1688.4	1697.6	1691.5
162.5°	1717.6	1717.6	1719.1	1729.9	1722.2
165°	1746.8	1745.2	1745.2	1756.0	1748.3
167.5°	1772.9	1768.3	1768.3	1779.0	1771.4
170°	1792.9	1788.3	1786.7	1797.5	1788.3
172.5°	1806.7	1802.1	1800.5	1811.3	1802.1
175°	1817.4	1812.8	1809.8	1820.5	1811.3
177.5°	1823.6	1819.0	1815.9	1825.1	1815.9
180°	1820.5	1820.5	1820.5	1820.5	1820.5

(END OF REPORT)