

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: P1029500

Luminaire Tested: S122DIW-B485D1440UB2750-4F0-XX-W2A-F1_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029500
REPORT IS A COMBINATION OF REPORTS P986049 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-F1_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

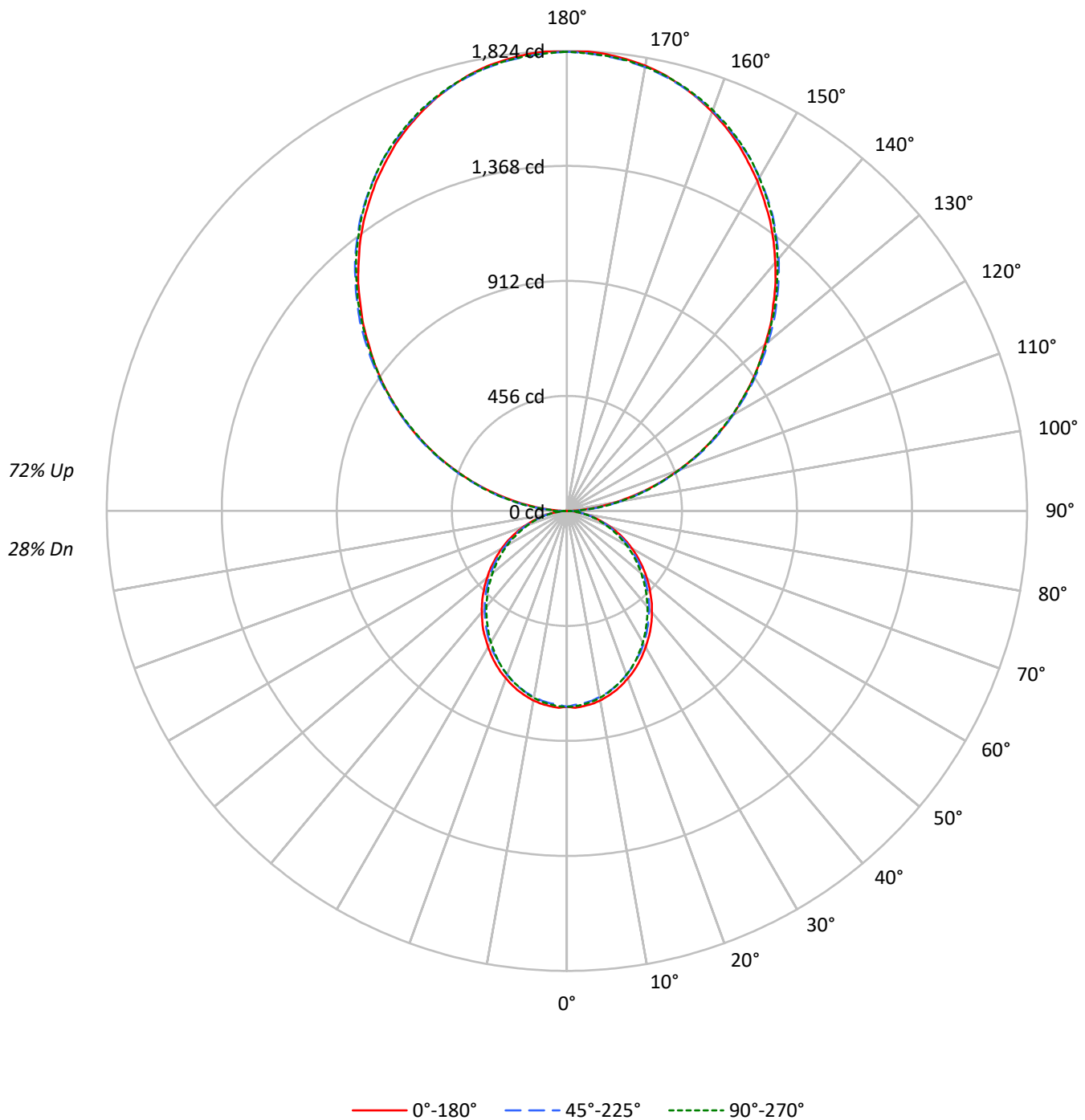
Lumens per Lamp: N/A
Luminaire Lumens: 7071.0 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	50	30	10
RCR																				
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36			28
1	93	89	85	82	83	79	76	73	62	60	58	46	45	44	32	31	30			24
2	85	77	71	66	75	69	64	60	54	51	48	41	38	37	28	27	25			20
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22			17
4	70	60	52	47	63	54	47	42	43	38	34	32	29	26	22	20	19			14
5	64	53	46	40	57	48	41	36	38	33	29	29	25	23	20	18	16			12
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14			11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	13			10
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	15	13	11			9
9	47	35	28	23	42	32	26	21	26	21	18	20	16	14	14	12	10			8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9			7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12295	12295	12295
5°	12315	11719	11636
10°	12213	11184	10963
15°	12035	10647	10255
20°	11794	10061	9585
25°	11552	9451	8916
30°	11249	8876	8212
35°	10964	8270	7524
40°	10611	7671	6870
45°	10258	7078	6231
50°	9876	6475	5568
55°	9473	5829	4939
60°	9018	5131	4286
65°	8521	4421	3599
70°	7891	3643	2907
75°	7021	2808	2243
80°	5964	1908	1444
85°	4322	887	614

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10258 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	1.0
10°-20°	205.7	2.9
20°-30°	302.3	4.3
30°-40°	351.0	5.0
40°-50°	350.6	5.0
50°-60°	305.7	4.3
60°-70°	226.0	3.2
70°-80°	127.9	1.8
80°-90°	38.9	0.6
90°-100°	112.6	1.6
100°-110°	358.0	5.1
110°-120°	612.6	8.7
120°-130°	805.7	11.4
130°-140°	904.3	12.8
140°-150°	886.9	12.5
150°-160°	743.9	10.5
160°-170°	493.4	7.0
170°-180°	172.4	2.4
0°-30°	581.0	8.2
0°-40°	932.1	13.2
0°-60°	1588.4	22.5
0°-90°	1981.2	28.0
90°-120°	1083.2	15.3
90°-150°	3680.1	52.0
90°-180°	5090.0	72.0
0°-180°	7071.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	777	777	777	777	777	
5°	777	774	766	772	770	74
15°	739	735	725	728	724	208
25°	669	663	650	652	650	308
35°	577	570	558	553	550	360
45°	470	464	453	445	442	363
55°	356	351	342	333	329	318
65°	240	235	228	221	217	237
75°	126	124	120	116	117	134
85°	31	30	29	27	26	34
90°	2	20	54	51	52	7
95°	80	95	98	98	95	89
105°	330	335	338	341	341	349
115°	614	624	621	619	614	608
125°	894	908	903	899	897	799
135°	1157	1174	1177	1175	1171	894
145°	1404	1415	1424	1426	1420	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°	776.7	776.7	776.7	776.7	776.7
2.5°	781.2	777.4	769.2	776.7	775.2
5°	776.7	773.7	765.5	771.5	770.0
7.5°	771.5	767.0	758.8	764.7	763.2
10°	763.2	758.0	749.0	755.0	752.8
12.5°	752.0	747.6	738.6	742.3	740.8
15°	739.3	734.9	725.2	728.1	724.4
17.5°	723.7	719.2	709.5	713.2	709.5
20°	706.5	702.0	691.5	693.8	690.8
22.5°	689.3	682.6	672.9	672.9	671.4
25°	669.1	663.2	650.5	652.0	650.5
27.5°	646.7	641.5	631.8	629.6	625.8
30°	624.3	618.4	607.2	604.9	601.9
32.5°	600.4	596.0	584.0	579.5	576.5
35°	577.3	569.8	557.9	553.4	549.7
37.5°	551.1	544.4	532.5	527.2	523.5
40°	524.3	518.3	506.3	499.6	496.6
42.5°	498.1	492.1	480.2	472.7	468.2
45°	469.7	464.5	453.3	445.1	442.1
47.5°	442.1	436.9	424.9	416.7	412.2
50°	413.0	409.3	398.8	388.3	384.6
52.5°	384.6	379.4	369.7	361.5	356.2
55°	355.5	351.0	342.0	333.1	329.3
57.5°	326.4	322.6	312.9	304.0	301.0
60°	297.2	294.2	283.8	275.6	273.3
62.5°	268.9	263.6	256.2	248.7	245.7
65°	239.7	235.2	227.8	221.1	217.3
67.5°	209.9	206.1	199.4	194.2	191.2
70°	182.2	179.2	172.5	167.3	164.3
72.5°	153.8	150.9	147.1	141.9	139.7
75°	125.5	124.0	120.2	115.8	117.2
77.5°	100.1	97.1	95.6	93.4	91.1
80°	74.7	73.9	72.4	70.2	68.7
82.5°	50.8	50.8	50.0	47.0	47.0
85°	30.6	29.9	29.1	26.9	26.1
87.5°	13.4	11.9	10.5	8.2	7.5
90°	1.5	20.0	53.8	50.7	52.2
92.5°	33.8	46.1	47.6	49.2	49.2
95°	79.9	95.3	98.3	98.3	95.3
97.5°	133.7	147.5	153.6	153.6	153.6
100°	195.1	207.4	212.0	212.0	210.5
102.5°	259.6	268.9	275.0	276.5	275.0
105°	330.3	334.9	338.0	341.1	341.1
107.5°	401.0	407.1	407.1	408.7	401.0
110°	468.6	477.8	477.8	477.8	473.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	542.3	551.5	550.0	545.4	542.3
115°	614.5	623.7	620.7	619.1	614.5
117.5°	686.7	699.0	691.3	686.7	682.1
120°	758.9	771.2	758.9	758.9	754.3
122.5°	825.0	840.4	832.7	828.1	825.0
125°	894.1	908.0	903.3	898.7	897.2
127.5°	961.7	978.6	972.5	966.3	961.7
130°	1024.7	1044.7	1041.6	1038.5	1032.4
132.5°	1095.4	1110.7	1112.3	1104.6	1100.0
135°	1156.8	1173.7	1176.8	1175.3	1170.7
137.5°	1224.4	1238.3	1241.3	1239.8	1233.6
140°	1284.3	1298.2	1305.9	1305.9	1299.7
142.5°	1345.8	1359.6	1364.2	1365.8	1359.6
145°	1404.2	1414.9	1424.2	1425.7	1419.5
147.5°	1456.4	1470.2	1476.4	1479.5	1473.3
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)