

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: P1029506

Luminaire Tested: S122DIW-B485D1440UB2750-4F0-XX-W2A-F_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029506
REPORT IS A COMBINATION OF REPORTS P986060 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-F_4000K
Description: Define 2 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

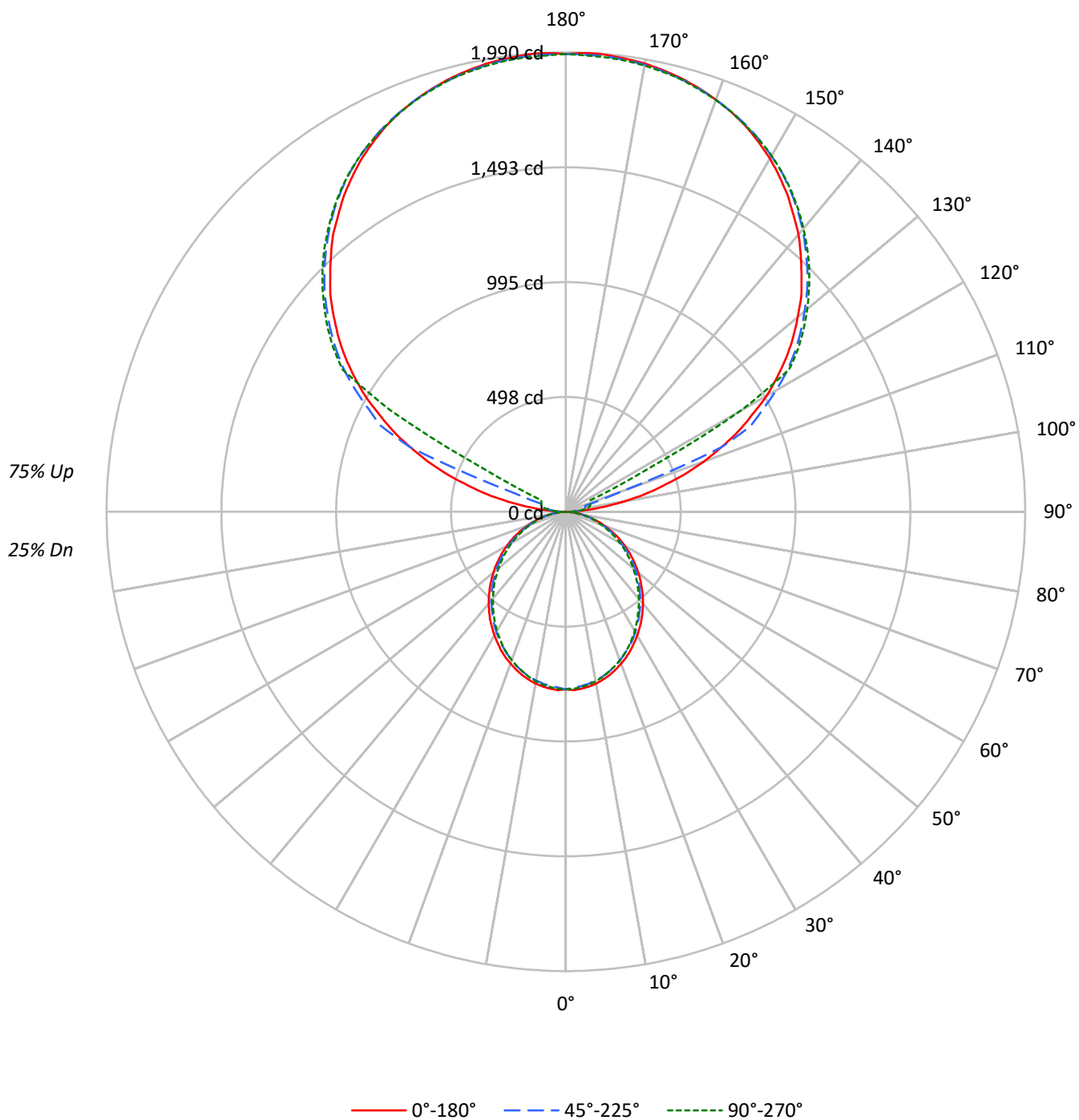
Lumens per Lamp: N/A
Luminaire Lumens: 7774.0 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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
RCR																	
0	101	101	101	101	90	90	90	90	70	70	70	51	51	51	33	33	33
1	92	88	84	81	82	79	75	73	61	59	57	44	43	42	29	29	28
2	84	77	71	66	75	69	64	60	53	50	47	39	37	35	26	25	24
3	77	67	60	55	68	60	54	50	47	43	39	34	32	30	23	21	20
4	70	60	52	46	62	53	47	42	42	37	33	31	28	25	20	19	17
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	17	15
6	59	47	40	34	52	42	36	31	33	28	25	25	21	19	17	15	13
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	12
8	50	38	31	26	45	35	28	24	27	23	19	20	17	15	14	12	10
9	47	35	28	23	42	32	25	21	25	20	17	19	15	13	13	11	9
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12176	12176	12176
5°	12196	11606	11524
10°	12097	11076	10857
15°	11919	10544	10156
20°	11680	9965	9493
25°	11441	9359	8829
30°	11141	8790	8133
35°	10857	8190	7451
40°	10508	7598	6805
45°	10160	7011	6172
50°	9781	6413	5514
55°	9382	5772	4892
60°	8933	5082	4245
65°	8439	4378	3564
70°	7817	3609	2878
75°	6953	2782	2222
80°	5908	1889	1430
85°	4280	878	609

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10160 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	0.9
10°-20°	203.7	2.6
20°-30°	299.3	3.9
30°-40°	347.7	4.5
40°-50°	347.2	4.5
50°-60°	302.8	3.9
60°-70°	223.8	2.9
70°-80°	126.6	1.6
80°-90°	36.9	0.5
90°-100°	65.4	0.8
100°-110°	243.8	3.1
110°-120°	646.5	8.3
120°-130°	1072.2	13.8
130°-140°	1138.9	14.7
140°-150°	1058.5	13.6
150°-160°	851.0	10.9
160°-170°	548.4	7.1
170°-180°	188.7	2.4
0°-30°	575.4	7.4
0°-40°	923.1	11.9
0°-60°	1573.1	20.2
0°-90°	1960.5	25.2
90°-120°	955.6	12.3
90°-150°	4225.4	54.4
90°-180°	5814.0	74.8
0°-180°	7774.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	769	769	769	769	769	
5°	769	766	758	764	763	73
15°	732	728	718	721	717	206
25°	663	657	644	646	644	305
35°	572	564	552	548	544	357
45°	465	460	449	441	438	359
55°	352	348	339	330	326	315
65°	237	233	226	219	215	235
75°	124	123	119	115	116	133
85°	30	30	29	27	26	34
90°	1	17	29	36	39	7
95°	93	46	56	63	62	110
105°	436	479	88	103	109	466
115°	825	850	885	221	118	812
125°	1167	1185	1212	1222	1227	1040
135°	1444	1466	1479	1494	1491	1115
145°	1674	1673	1698	1708	1700	1047
155°	1844	1831	1848	1857	1845	850
165°	1943	1934	1938	1949	1938	549
175°	1987	1977	1980	1990	1976	189
180°	1983	1983	1983	1983	1983	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	769.2	769.2	769.2	769.2	769.2
2.5°	773.7	770.0	761.8	769.2	767.7
5°	769.2	766.3	758.1	764.0	762.6
7.5°	764.0	759.6	751.5	757.4	755.9
10°	755.9	750.7	741.8	747.8	745.5
12.5°	744.8	740.4	731.5	735.2	733.7
15°	732.2	727.8	718.2	721.1	717.4
17.5°	716.7	712.3	702.6	706.3	702.6
20°	699.7	695.2	684.9	687.1	684.2
22.5°	682.7	676.0	666.4	666.4	664.9
25°	662.7	656.8	644.2	645.7	644.2
27.5°	640.5	635.3	625.7	623.5	619.8
30°	618.3	612.4	601.3	599.1	596.1
32.5°	594.7	590.2	578.4	574.0	571.0
35°	571.7	564.3	552.5	548.1	544.4
37.5°	545.8	539.2	527.4	522.2	518.5
40°	519.2	513.3	501.5	494.8	491.9
42.5°	493.3	487.4	475.6	468.2	463.7
45°	465.2	460.0	449.0	440.8	437.9
47.5°	437.9	432.7	420.8	412.7	408.3
50°	409.0	405.3	395.0	384.6	380.9
52.5°	380.9	375.7	366.1	358.0	352.8
55°	352.1	347.6	338.7	329.9	326.2
57.5°	323.2	319.5	309.9	301.0	298.1
60°	294.4	291.4	281.1	272.9	270.7
62.5°	266.3	261.1	253.7	246.3	243.3
65°	237.4	233.0	225.6	218.9	215.2
67.5°	207.8	204.1	197.5	192.3	189.3
70°	180.5	177.5	170.9	165.7	162.7
72.5°	152.4	149.4	145.7	140.5	138.3
75°	124.3	122.8	119.1	114.6	116.1
77.5°	99.1	96.2	94.7	92.5	90.2
80°	74.0	73.2	71.7	69.5	68.0
82.5°	50.3	50.3	49.6	46.6	46.6
85°	30.3	29.6	28.8	26.6	25.9
87.5°	13.3	11.8	10.4	8.1	7.4
90°	1.4	17.2	28.7	35.9	38.7
92.5°	35.9	30.1	34.4	37.3	38.7
95°	93.3	45.9	56.0	63.1	61.7
97.5°	167.9	50.2	73.2	77.5	78.9
100°	254.0	57.4	81.8	93.3	96.1
102.5°	348.7	345.8	84.7	100.4	104.7
105°	436.2	479.3	87.5	103.3	109.1
107.5°	538.1	574.0	90.4	106.2	111.9
110°	635.7	665.8	251.1	107.6	113.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	727.5	753.3	728.9	110.5	114.8
115°	825.1	849.5	885.3	221.0	117.7
117.5°	909.7	938.4	962.8	757.6	381.7
120°	1004.4	1025.9	1051.8	1069.0	875.3
122.5°	1084.8	1107.7	1136.4	1145.0	1146.5
125°	1166.6	1185.2	1212.5	1222.5	1226.8
127.5°	1241.2	1261.3	1282.8	1297.1	1298.6
130°	1311.5	1334.4	1350.2	1366.0	1364.6
132.5°	1383.2	1401.9	1417.7	1430.6	1429.1
135°	1443.5	1466.5	1479.4	1493.7	1490.8
137.5°	1506.6	1523.9	1538.2	1552.6	1548.2
140°	1568.3	1579.8	1595.6	1608.5	1601.3
142.5°	1620.0	1630.0	1648.7	1660.2	1653.0
145°	1674.5	1673.1	1697.5	1707.5	1700.3
147.5°	1721.9	1717.6	1742.0	1749.1	1743.4
150°	1767.8	1757.7	1780.7	1789.3	1782.1
152.5°	1806.5	1795.0	1816.6	1825.2	1815.1
155°	1843.8	1830.9	1848.1	1856.7	1845.3
157.5°	1874.0	1862.5	1875.4	1885.4	1874.0
160°	1899.8	1891.2	1899.8	1908.4	1898.4
162.5°	1922.8	1914.1	1921.3	1931.4	1918.4
165°	1942.8	1934.2	1938.5	1948.6	1938.5
167.5°	1958.6	1950.0	1954.3	1964.4	1951.4
170°	1971.5	1962.9	1965.8	1975.8	1962.9
172.5°	1980.1	1971.5	1974.4	1984.5	1971.5
175°	1987.3	1977.3	1980.1	1990.2	1975.8
177.5°	1990.2	1980.1	1981.6	1991.6	1978.7
180°	1983.0	1983.0	1983.0	1983.0	1983.0

(END OF REPORT)