

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: P1029470

Luminaire Tested: S122DIW-B485D1240UB2750-4F0-XX-W2A-F1_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029470
REPORT IS A COMBINATION OF REPORTS P985959 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-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

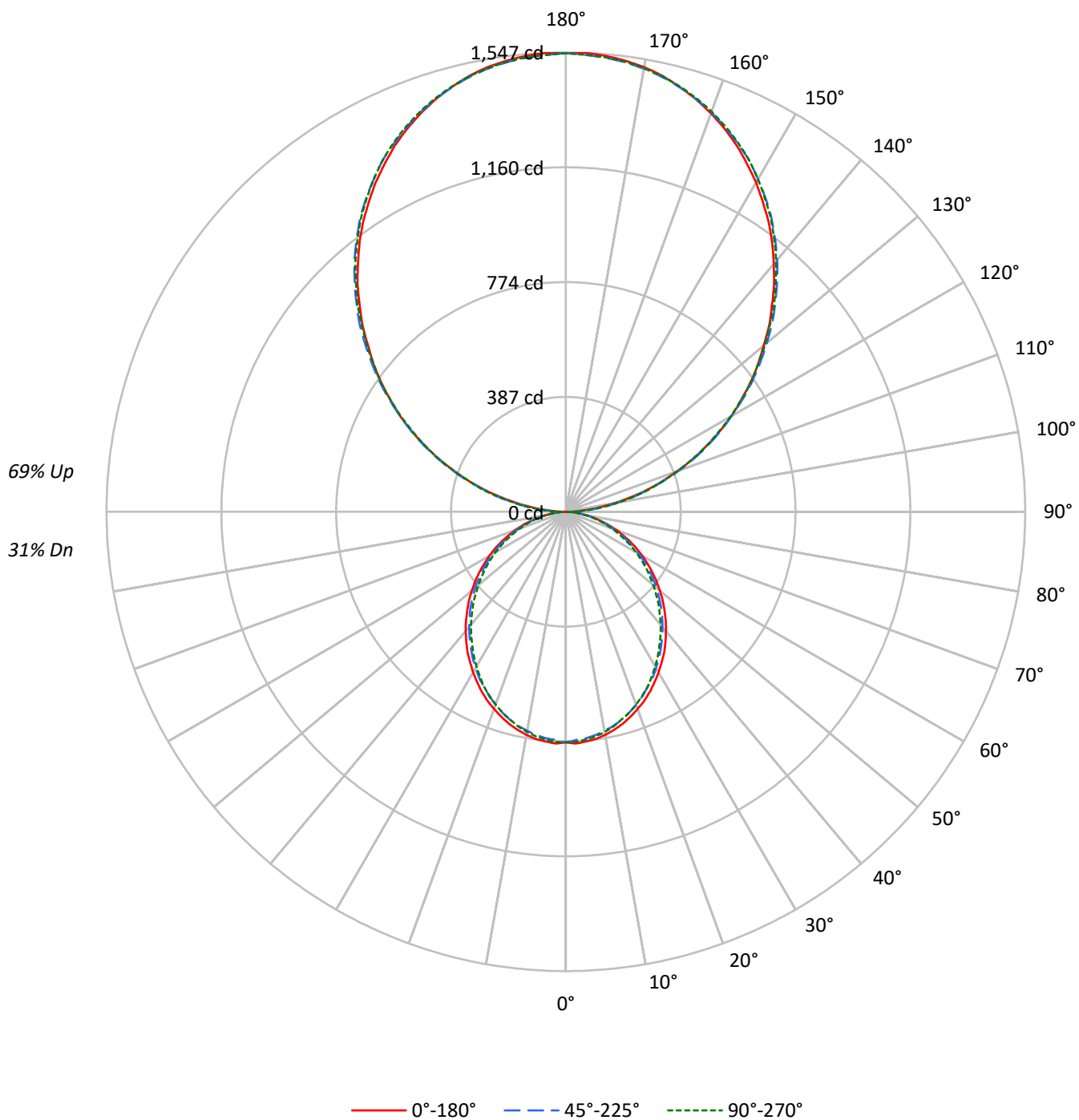
Lumens per Lamp: N/A
Luminaire Lumens: 6297.0 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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

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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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39
1	94	89	86	82	84	81	77	74	64	62	60	49	47	46	34	34	33
2	85	78	72	67	76	70	65	61	56	52	49	43	40	38	30	29	28
3	78	69	61	56	70	62	56	51	49	45	41	38	35	32	27	25	24
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	16
7	55	43	36	30	50	39	33	28	32	27	23	25	21	18	18	16	14
8	51	39	32	27	46	36	29	25	29	24	20	22	19	16	16	14	12
9	48	36	28	24	43	32	26	22	26	22	18	21	17	15	15	13	11
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10

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	1.2
10°-20°	205.7	3.3
20°-30°	302.3	4.8
30°-40°	351.0	5.6
40°-50°	350.6	5.6
50°-60°	305.7	4.9
60°-70°	226.0	3.6
70°-80°	127.9	2.0
80°-90°	38.1	0.6
90°-100°	95.5	1.5
100°-110°	303.6	4.8
110°-120°	519.5	8.3
120°-130°	683.3	10.9
130°-140°	767.0	12.2
140°-150°	752.1	11.9
150°-160°	630.9	10.0
160°-170°	418.4	6.6
170°-180°	146.2	2.3
0°-30°	581.0	9.2
0°-40°	932.1	14.8
0°-60°	1588.4	25.2
0°-90°	1980.4	31.4
90°-120°	918.7	14.6
90°-150°	3121.0	49.6
90°-180°	4317.0	68.6
0°-180°	6297.0	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°	1	17	46	43	44	6
95°	68	81	83	83	81	76
105°	280	284	287	289	289	296
115°	521	529	526	525	521	516
125°	758	770	766	762	761	678
135°	981	995	998	997	993	758
145°	1191	1200	1208	1209	1204	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	

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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°	1.3	16.9	45.6	43.0	44.3
92.5°	28.7	39.1	40.4	41.7	41.7
95°	67.8	80.8	83.4	83.4	80.8
97.5°	113.4	125.1	130.3	130.3	130.3
100°	165.5	175.9	179.8	179.8	178.5
102.5°	220.2	228.0	233.2	234.5	233.2
105°	280.1	284.0	286.6	289.2	289.2
107.5°	340.1	345.3	345.3	346.6	340.1
110°	397.4	405.2	405.2	405.2	401.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	459.9	467.7	466.4	462.5	459.9
115°	521.2	529.0	526.4	525.1	521.2
117.5°	582.4	592.8	586.3	582.4	578.5
120°	643.6	654.1	643.6	643.6	639.7
122.5°	699.7	712.7	706.2	702.3	699.7
125°	758.3	770.0	766.1	762.2	760.9
127.5°	815.6	830.0	824.7	819.5	815.6
130°	869.0	886.0	883.4	880.8	875.6
132.5°	929.0	942.0	943.3	936.8	932.9
135°	981.1	995.4	998.0	996.7	992.8
137.5°	1038.4	1050.2	1052.8	1051.5	1046.2
140°	1089.2	1101.0	1107.5	1107.5	1102.3
142.5°	1141.4	1153.1	1157.0	1158.3	1153.1
145°	1190.9	1200.0	1207.8	1209.1	1203.9
147.5°	1235.2	1246.9	1252.1	1254.7	1249.5
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)