

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: P1029607

Luminaire Tested: S122DIW-B675D1240UB2750-4F0-XX-W2A-D1_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029607
REPORT IS A COMBINATION OF REPORTS P986394 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B675D1240UB2750-4F0-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

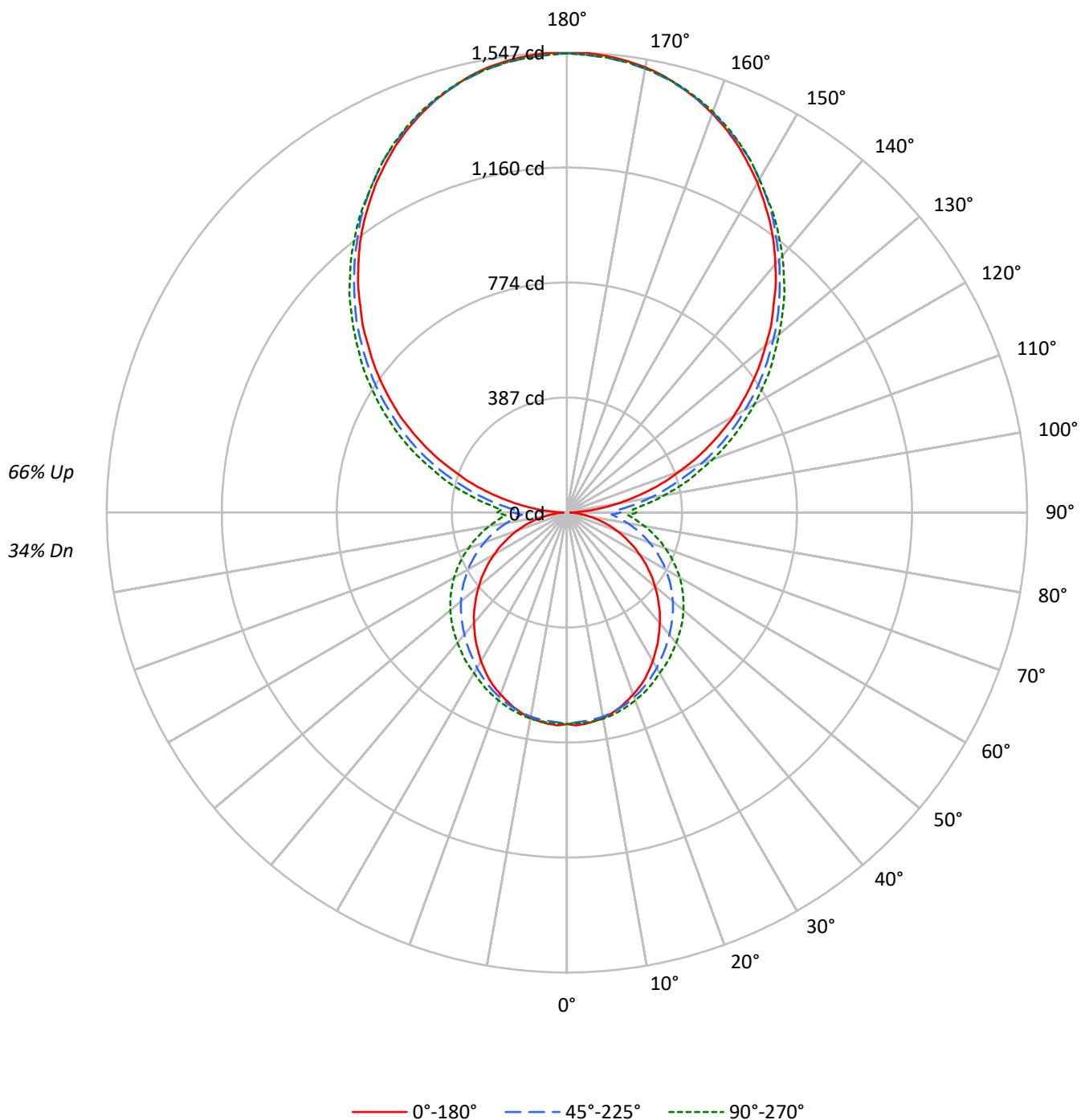
Lumens per Lamp: N/A
Luminaire Lumens: 7035.0 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 78
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	93	93	93	93	75	75	75	57	57	57	42	42	42
1	93	89	84	81	84	80	76	73	64	61	59	49	47	46	35	34	33
2	84	77	70	65	76	69	64	59	55	51	48	42	40	37	30	29	27
3	77	67	60	54	69	61	54	49	48	44	40	37	34	31	27	24	23
4	70	59	51	45	63	53	46	41	43	38	34	33	29	26	24	21	19
5	64	52	44	38	57	47	40	35	38	33	29	29	25	22	21	19	16
6	59	47	39	33	53	42	35	30	34	29	25	26	22	20	19	16	14
7	54	42	34	28	49	38	31	26	31	25	22	24	20	17	17	15	13
8	50	38	30	25	45	34	28	23	28	23	19	22	18	15	16	13	11
9	47	35	27	22	42	31	25	20	25	20	17	20	16	13	15	12	10
10	44	32	24	20	39	29	22	18	23	18	15	18	15	12	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11259	11259	11259
5°	11309	10779	10717
10°	11234	10404	10254
15°	11076	10019	9778
20°	10876	9614	9325
25°	10678	9225	8916
30°	10402	8831	8510
35°	10121	8451	8212
40°	9826	8121	7915
45°	9546	7823	7658
50°	9245	7548	7402
55°	8926	7255	7142
60°	8539	6952	6870
65°	8134	6603	6555
70°	7678	6226	6218
75°	7093	5851	5899
80°	6171	5460	5569
85°	5241	5092	5284

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9546 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	1.0
10°-20°	193.4	2.7
20°-30°	293.0	4.2
30°-40°	356.8	5.1
40°-50°	383.9	5.5
50°-60°	372.8	5.3
60°-70°	325.6	4.6
70°-80°	250.6	3.6
80°-90°	172.2	2.4
90°-100°	211.3	3.0
100°-110°	388.2	5.5
110°-120°	575.4	8.2
120°-130°	714.4	10.2
130°-140°	780.0	11.1
140°-150°	754.3	10.7
150°-160°	630.9	9.0
160°-170°	418.4	5.9
170°-180°	146.2	2.1
0°-30°	553.8	7.9
0°-40°	910.7	12.9
0°-60°	1667.4	23.7
0°-90°	2415.8	34.3
90°-120°	1174.9	16.7
90°-150°	3423.6	48.7
90°-180°	4619.0	65.7
0°-180°	7035.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	711	711	711	711	711	
5°	713	710	704	710	709	68
15°	680	682	682	692	691	192
25°	618	626	635	647	650	284
35°	533	550	570	593	600	333
45°	437	465	501	533	543	337
55°	335	372	426	463	476	300
65°	229	279	340	382	396	227
75°	127	184	250	295	308	134
85°	37	101	167	210	225	39
90°	12	87	182	220	234	11
95°	76	138	202	241	251	82
105°	285	319	375	414	425	302
115°	525	544	588	618	625	519
125°	760	772	801	825	833	680
135°	982	996	1009	1030	1034	759
145°	1191	1200	1208	1215	1215	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°	711.3	711.3	711.3	711.3	711.3
2.5°	716.4	713.3	706.1	711.3	709.2
5°	713.3	710.3	704.1	710.3	709.2
7.5°	708.2	706.1	701.0	708.2	707.2
10°	702.0	699.9	696.8	705.1	704.1
12.5°	691.7	692.7	690.7	698.9	697.9
15°	680.4	682.4	682.4	691.7	690.7
17.5°	665.9	670.0	673.1	682.4	682.4
20°	651.5	656.6	660.8	672.1	672.1
22.5°	636.0	642.2	648.4	659.7	661.8
25°	618.5	625.7	635.0	647.4	650.5
27.5°	597.9	609.2	619.5	635.0	637.1
30°	577.3	590.7	604.1	620.6	623.7
32.5°	554.6	570.1	586.5	606.1	612.3
35°	532.9	550.5	570.1	592.7	600.0
37.5°	509.2	528.8	553.6	578.3	585.5
40°	485.5	508.2	536.0	562.8	572.1
42.5°	462.8	485.5	518.5	548.4	557.7
45°	437.1	464.9	501.0	532.9	543.3
47.5°	412.3	442.2	483.5	516.5	527.8
50°	386.6	418.5	464.9	500.0	511.3
52.5°	361.8	395.8	445.3	481.4	493.8
55°	335.0	372.1	425.7	462.8	476.2
57.5°	309.3	350.5	404.1	444.3	457.7
60°	281.4	325.7	384.5	423.7	438.1
62.5°	256.7	303.1	361.8	404.1	417.5
65°	228.8	279.4	340.2	382.4	395.8
67.5°	204.1	256.7	318.5	360.8	375.2
70°	177.3	230.9	294.8	339.1	351.5
72.5°	152.6	208.2	273.2	316.5	331.9
75°	126.8	184.5	250.5	294.8	308.2
77.5°	102.1	161.8	228.8	273.2	287.6
80°	77.3	140.2	207.2	250.5	264.9
82.5°	56.7	118.5	186.6	229.9	243.3
85°	37.1	101.0	167.0	210.3	224.7
87.5°	22.7	84.5	150.5	192.8	206.2
90°	11.6	87.0	181.7	220.3	234.0
92.5°	38.0	103.0	167.2	208.7	221.1
95°	76.0	137.5	201.9	241.1	250.9
97.5°	120.6	176.6	241.6	279.8	292.1
100°	172.7	221.3	282.9	321.0	331.1
102.5°	226.4	268.2	329.1	367.5	377.5
105°	285.3	319.0	375.3	413.9	425.3
107.5°	345.3	375.2	426.7	463.1	467.9
110°	401.5	429.9	480.5	513.4	520.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	464.0	488.3	534.4	563.5	572.3
115°	525.3	544.5	588.3	617.9	625.3
117.5°	585.5	604.1	640.9	668.0	674.4
120°	646.7	661.3	692.0	720.9	728.4
122.5°	702.8	716.8	748.5	772.4	779.1
125°	760.4	772.1	801.1	825.1	833.1
127.5°	817.7	831.0	853.6	874.1	879.5
130°	871.1	887.0	906.1	928.2	931.3
132.5°	931.1	943.0	959.8	977.0	981.3
135°	982.1	996.4	1009.3	1029.7	1034.0
137.5°	1039.4	1051.2	1059.0	1077.3	1079.2
140°	1090.2	1101.0	1109.6	1126.1	1127.0
142.5°	1142.4	1153.1	1157.0	1170.7	1170.6
145°	1190.9	1200.0	1207.8	1215.3	1215.2
147.5°	1235.2	1246.9	1252.1	1255.7	1253.6
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)