

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: P1029605

Luminaire Tested: S122DIW-B675D1240UB2750-4F0-XX-W2A-D1_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029605
REPORT IS A COMBINATION OF REPORTS P986392 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_2700K
Description: Define 2 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

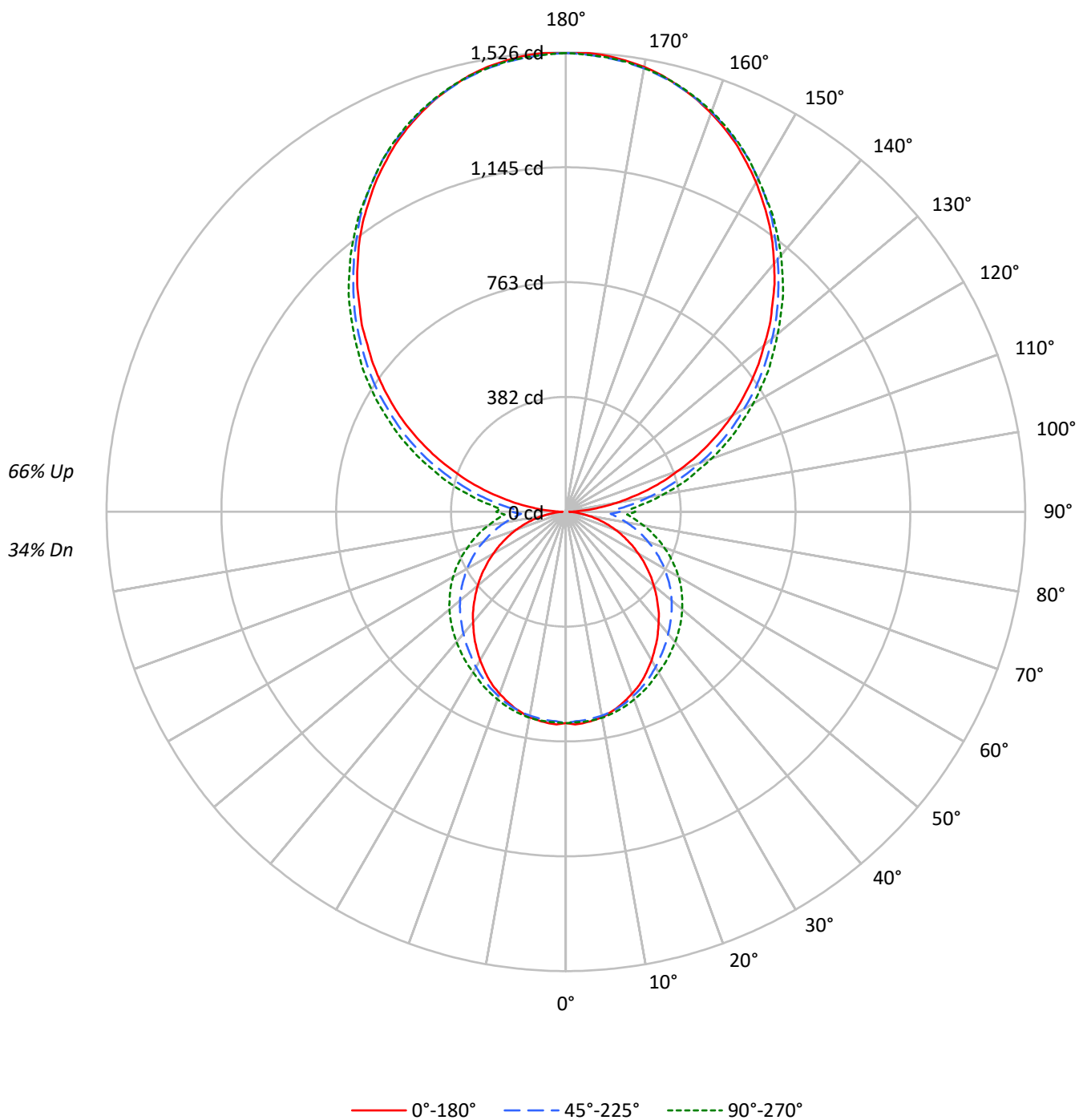
Lumens per Lamp: N/A
Luminaire Lumens: 6944.0 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	11114	11114	11114
5°	11164	10640	10580
10°	11090	10272	10121
15°	10933	9890	9652
20°	10735	9489	9204
25°	10540	9106	8801
30°	10267	8717	8399
35°	9991	8341	8105
40°	9701	8016	7813
45°	9422	7722	7558
50°	9125	7451	7307
55°	8812	7162	7051
60°	8430	6861	6782
65°	8031	6517	6471
70°	7579	6146	6139
75°	7004	5777	5822
80°	6092	5389	5498
85°	5170	5025	5216

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9422 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	1.0
10°-20°	190.9	2.7
20°-30°	289.2	4.2
30°-40°	352.2	5.1
40°-50°	379.0	5.5
50°-60°	368.0	5.3
60°-70°	321.4	4.6
70°-80°	247.4	3.6
80°-90°	170.0	2.4
90°-100°	208.6	3.0
100°-110°	383.2	5.5
110°-120°	567.9	8.2
120°-130°	705.1	10.2
130°-140°	769.9	11.1
140°-150°	744.5	10.7
150°-160°	622.7	9.0
160°-170°	413.0	5.9
170°-180°	144.3	2.1
0°-30°	546.7	7.9
0°-40°	898.9	12.9
0°-60°	1645.9	23.7
0°-90°	2384.7	34.3
90°-120°	1159.7	16.7
90°-150°	3379.3	48.7
90°-180°	4559.0	65.7
0°-180°	6944.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	704	701	695	701	700	67
15°	672	674	674	683	682	189
25°	610	618	627	639	642	281
35°	526	543	563	585	592	329
45°	431	459	494	526	536	333
55°	331	367	420	457	470	296
65°	226	276	336	378	391	224
75°	125	182	247	291	304	132
85°	37	100	165	208	222	39
90°	12	86	179	217	231	11
95°	75	136	199	238	248	81
105°	282	315	370	409	420	298
115°	518	537	581	610	617	513
125°	750	762	791	814	822	671
135°	969	984	996	1016	1021	749
145°	1175	1184	1192	1200	1200	735
155°	1344	1348	1352	1358	1354	619
165°	1462	1461	1461	1470	1464	412
175°	1521	1518	1515	1524	1516	145
180°	1524	1524	1524	1524	1524	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	702.1	702.1	702.1	702.1	702.1
2.5°	707.2	704.1	697.0	702.1	700.1
5°	704.1	701.1	695.0	701.1	700.1
7.5°	699.1	697.0	691.9	699.1	698.0
10°	693.0	690.9	687.9	696.0	695.0
12.5°	682.8	683.8	681.8	689.9	688.9
15°	671.6	673.6	673.6	682.8	681.8
17.5°	657.3	661.4	664.5	673.6	673.6
20°	643.1	648.2	652.2	663.4	663.4
22.5°	627.8	633.9	640.0	651.2	653.3
25°	610.5	617.7	626.8	639.0	642.1
27.5°	590.2	601.4	611.5	626.8	628.8
30°	569.8	583.1	596.3	612.6	615.6
32.5°	547.4	562.7	579.0	598.3	604.4
35°	526.1	543.4	562.7	585.1	592.2
37.5°	502.7	522.0	546.4	570.8	578.0
40°	479.3	501.7	529.1	555.6	564.7
42.5°	456.9	479.3	511.8	541.3	550.5
45°	431.4	458.9	494.5	526.1	536.2
47.5°	407.0	436.5	477.2	509.8	521.0
50°	381.6	413.1	458.9	493.5	504.7
52.5°	357.2	390.7	439.6	475.2	487.4
55°	330.7	367.3	420.2	456.9	470.1
57.5°	305.3	346.0	398.9	438.6	451.8
60°	277.8	321.5	379.5	418.2	432.5
62.5°	253.4	299.2	357.2	398.9	412.1
65°	225.9	275.8	335.8	377.5	390.7
67.5°	201.5	253.4	314.4	356.1	370.4
70°	175.0	227.9	291.0	334.8	347.0
72.5°	150.6	205.5	269.7	312.4	327.7
75°	125.2	182.1	247.3	291.0	304.2
77.5°	100.7	159.8	225.9	269.7	283.9
80°	76.3	138.4	204.5	247.3	261.5
82.5°	56.0	117.0	184.2	226.9	240.1
85°	36.6	99.7	164.8	207.6	221.8
87.5°	22.4	83.4	148.6	190.3	203.5
90°	11.5	85.9	179.3	217.4	230.9
92.5°	37.5	101.7	165.1	206.0	218.3
95°	75.0	135.7	199.3	238.0	247.6
97.5°	119.0	174.4	238.5	276.1	288.4
100°	170.4	218.4	279.3	316.9	326.8
102.5°	223.4	264.8	324.8	362.8	372.7
105°	281.6	315.0	370.4	408.6	419.8
107.5°	340.8	370.3	421.2	457.1	461.9
110°	396.3	424.4	474.3	506.8	514.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	458.1	482.1	527.6	556.2	564.9
115°	518.5	537.4	580.7	609.9	617.2
117.5°	578.0	596.3	632.6	659.4	665.6
120°	638.4	652.7	683.1	711.6	718.9
122.5°	693.7	707.6	738.7	762.4	769.0
125°	750.5	762.0	790.8	814.4	822.2
127.5°	807.1	820.2	842.6	862.8	868.2
130°	859.8	875.5	894.3	916.2	919.1
132.5°	918.9	930.8	947.4	964.4	968.6
135°	969.4	983.5	996.3	1016.4	1020.7
137.5°	1026.0	1037.5	1045.2	1063.2	1065.3
140°	1076.1	1086.7	1095.1	1111.4	1112.4
142.5°	1127.6	1138.1	1142.0	1155.5	1155.4
145°	1175.4	1184.4	1192.1	1199.5	1199.5
147.5°	1219.2	1230.7	1235.9	1239.4	1237.4
150°	1264.2	1271.9	1277.0	1280.9	1277.0
152.5°	1304.0	1311.8	1318.2	1323.3	1318.2
155°	1343.9	1347.8	1351.6	1358.0	1354.2
157.5°	1378.6	1381.2	1383.8	1392.8	1386.3
160°	1409.5	1412.1	1413.3	1421.1	1415.9
162.5°	1437.8	1437.8	1439.1	1448.1	1441.6
165°	1462.2	1460.9	1460.9	1469.9	1463.5
167.5°	1484.1	1480.2	1480.2	1489.2	1482.8
170°	1500.8	1496.9	1495.7	1504.7	1496.9
172.5°	1512.4	1508.5	1507.2	1516.2	1508.5
175°	1521.4	1517.5	1514.9	1523.9	1516.2
177.5°	1526.5	1522.7	1520.1	1527.8	1520.1
180°	1523.9	1523.9	1523.9	1523.9	1523.9

(END OF REPORT)