

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: P1029623

Luminaire Tested: S122DIW-B675D1240UB2750-4F0-XX-W2A-F_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029623
REPORT IS A COMBINATION OF REPORTS P986420 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-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

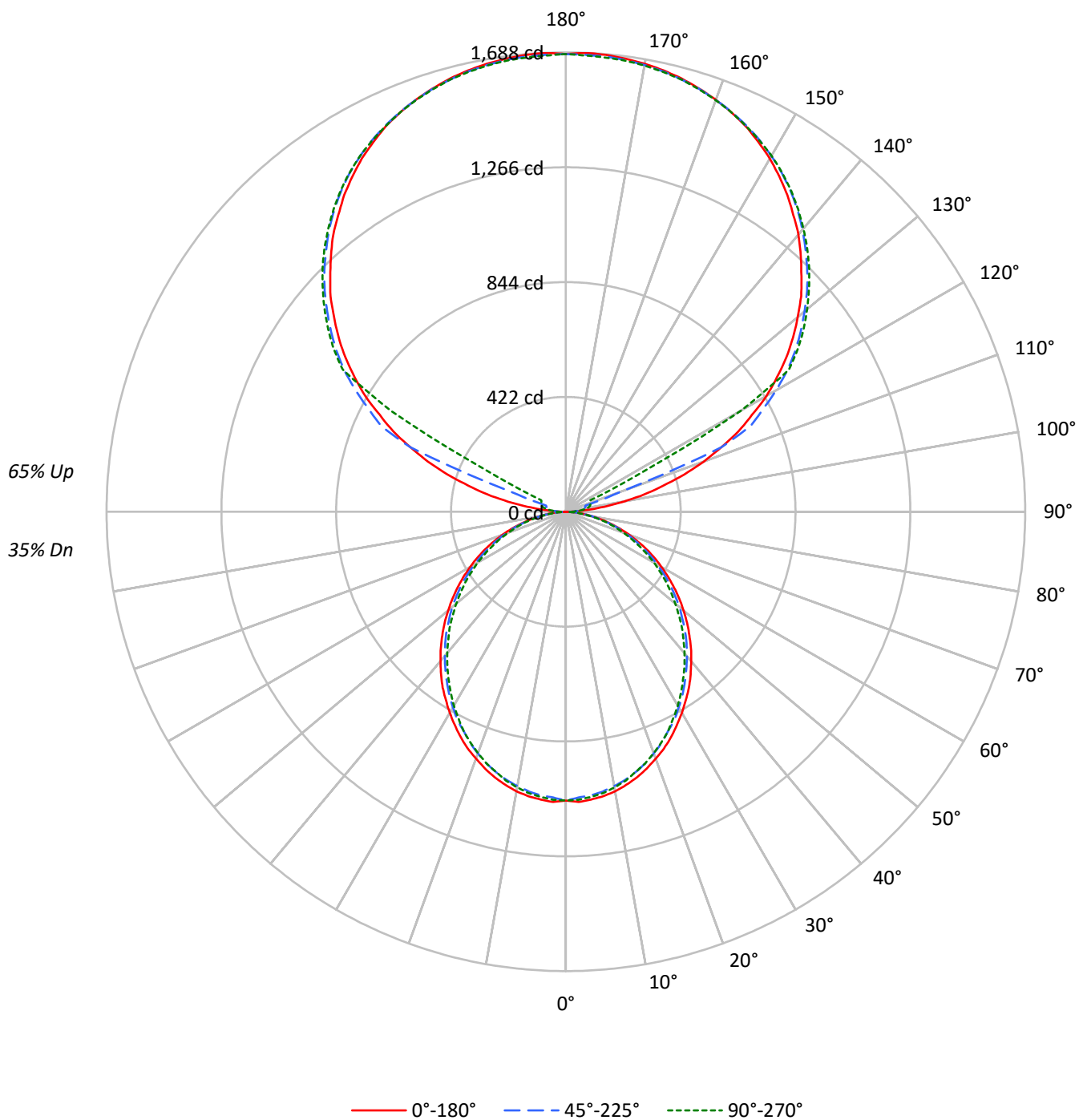
Lumens per Lamp: N/A
Luminaire Lumens: 7633.0 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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	50	30	10
RCR																				
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43			35
1	95	90	86	83	85	82	79	76	66	64	62	51	50	48	38	37	36			30
2	86	79	73	68	78	71	66	62	58	54	51	45	43	40	33	32	30			25
3	78	69	62	56	71	63	57	52	51	46	43	40	37	34	29	27	26			21
4	72	61	53	48	65	56	49	44	45	40	36	35	32	29	26	24	22			18
5	66	54	47	41	59	50	43	38	40	35	31	32	28	25	24	21	19			16
6	60	49	41	35	55	44	38	32	36	31	27	29	25	22	21	19	17			14
7	56	44	36	31	50	40	33	28	33	28	24	26	22	19	20	17	15			12
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	15	14			11
9	48	36	29	24	43	33	27	22	27	22	19	22	18	16	17	14	12			10
10	45	33	26	21	41	30	24	20	25	20	17	20	16	14	15	13	11			9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16800	16800	16800
5°	16827	16012	15899
10°	16689	15283	14979
15°	16445	14547	14012
20°	16114	13747	13096
25°	15785	12913	12182
30°	15371	12127	11222
35°	14981	11300	10279
40°	14497	10483	9388
45°	14019	9672	8515
50°	13494	8847	7608
55°	12942	7966	6749
60°	12323	7011	5857
65°	11646	6040	4917
70°	10783	4978	3972
75°	9588	3838	3066
80°	8143	2609	1974
85°	5905	1214	839

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14019 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	1.3
10°-20°	281.0	3.7
20°-30°	413.0	5.4
30°-40°	479.7	6.3
40°-50°	479.1	6.3
50°-60°	417.7	5.5
60°-70°	308.8	4.0
70°-80°	174.7	2.3
80°-90°	49.1	0.6
90°-100°	55.5	0.7
100°-110°	206.7	2.7
110°-120°	548.2	7.2
120°-130°	909.3	11.9
130°-140°	965.9	12.7
140°-150°	897.7	11.8
150°-160°	721.7	9.5
160°-170°	465.0	6.1
170°-180°	160.1	2.1
0°-30°	793.9	10.4
0°-40°	1273.6	16.7
0°-60°	2170.4	28.4
0°-90°	2702.9	35.4
90°-120°	810.4	10.6
90°-150°	3583.2	46.9
90°-180°	4930.0	64.6
0°-180°	7633.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1061	1061	1061	1061	1061	
5°	1061	1057	1046	1054	1052	101
15°	1010	1004	991	995	990	285
25°	914	906	889	891	889	421
35°	789	779	762	756	751	493
45°	642	635	619	608	604	495
55°	486	480	467	455	450	434
65°	328	321	311	302	297	324
75°	171	169	164	158	160	183
85°	42	41	40	37	36	47
90°	1	15	24	30	33	7
95°	79	39	48	54	52	94
105°	370	406	74	88	92	395
115°	700	720	751	187	100	689
125°	989	1005	1028	1037	1040	882
135°	1224	1244	1255	1267	1264	946
145°	1420	1419	1440	1448	1442	888
155°	1564	1553	1567	1575	1565	721
165°	1648	1640	1644	1652	1644	465
175°	1685	1677	1679	1688	1676	160
180°	1682	1682	1682	1682	1682	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1061.3	1061.3	1061.3	1061.3	1061.3
2.5°	1067.4	1062.3	1051.0	1061.3	1059.2
5°	1061.3	1057.2	1045.9	1054.1	1052.1
7.5°	1054.1	1048.0	1036.8	1044.9	1042.9
10°	1042.9	1035.7	1023.5	1031.7	1028.6
12.5°	1027.6	1021.5	1009.2	1014.3	1012.3
15°	1010.2	1004.1	990.8	994.9	989.8
17.5°	988.8	982.7	969.4	974.5	969.4
20°	965.3	959.2	944.9	948.0	943.9
22.5°	941.9	932.7	919.4	919.4	917.4
25°	914.3	906.1	888.8	890.8	888.8
27.5°	883.7	876.6	863.3	860.2	855.1
30°	853.1	844.9	829.6	826.6	822.5
32.5°	820.4	814.3	798.0	791.9	787.8
35°	788.8	778.6	762.3	756.1	751.0
37.5°	753.1	743.9	727.6	720.4	715.3
40°	716.3	708.2	691.9	682.7	678.6
42.5°	680.6	672.5	656.1	645.9	639.8
45°	641.9	634.7	619.4	608.2	604.1
47.5°	604.1	597.0	580.6	569.4	563.3
50°	564.3	559.2	544.9	530.6	525.5
52.5°	525.5	518.4	505.1	493.9	486.7
55°	485.7	479.6	467.4	455.1	450.0
57.5°	445.9	440.8	427.6	415.3	411.2
60°	406.1	402.1	387.8	376.5	373.5
62.5°	367.4	360.2	350.0	339.8	335.7
65°	327.6	321.4	311.2	302.0	296.9
67.5°	286.7	281.6	272.5	265.3	261.2
70°	249.0	244.9	235.7	228.6	224.5
72.5°	210.2	206.1	201.0	193.9	190.8
75°	171.4	169.4	164.3	158.2	160.2
77.5°	136.7	132.7	130.6	127.6	124.5
80°	102.0	101.0	99.0	95.9	93.9
82.5°	69.4	69.4	68.4	64.3	64.3
85°	41.8	40.8	39.8	36.7	35.7
87.5°	18.4	16.3	14.3	11.2	10.2
90°	1.2	14.6	24.3	30.4	32.9
92.5°	30.4	25.6	29.2	31.6	32.9
95°	79.1	38.9	47.5	53.5	52.3
97.5°	142.4	42.6	62.1	65.7	66.9
100°	215.4	48.7	69.4	79.1	81.5
102.5°	295.7	293.3	71.8	85.2	88.8
105°	369.9	406.4	74.2	87.6	92.5
107.5°	456.3	486.7	76.7	90.0	94.9
110°	539.1	564.6	212.9	91.3	96.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	616.9	638.8	618.2	93.7	97.3
115°	699.7	720.4	750.8	187.4	99.8
117.5°	771.5	795.8	816.5	642.5	323.7
120°	851.8	870.0	891.9	906.5	742.3
122.5°	919.9	939.4	963.7	971.0	972.2
125°	989.3	1005.1	1028.2	1036.7	1040.4
127.5°	1052.6	1069.6	1087.8	1100.0	1101.2
130°	1112.2	1131.7	1145.0	1158.4	1157.2
132.5°	1173.0	1188.8	1202.2	1213.2	1212.0
135°	1224.1	1243.6	1254.6	1266.7	1264.3
137.5°	1277.7	1292.3	1304.4	1316.6	1313.0
140°	1330.0	1339.7	1353.1	1364.1	1358.0
142.5°	1373.8	1382.3	1398.1	1407.9	1401.8
145°	1420.0	1418.8	1439.5	1448.0	1441.9
147.5°	1460.2	1456.5	1477.2	1483.3	1478.5
150°	1499.1	1490.6	1510.1	1517.4	1511.3
152.5°	1532.0	1522.3	1540.5	1547.8	1539.3
155°	1563.6	1552.7	1567.3	1574.6	1564.8
157.5°	1589.2	1579.4	1590.4	1598.9	1589.2
160°	1611.1	1603.8	1611.1	1618.4	1609.9
162.5°	1630.6	1623.3	1629.3	1637.9	1626.9
165°	1647.6	1640.3	1643.9	1652.5	1643.9
167.5°	1661.0	1653.7	1657.3	1665.8	1654.9
170°	1671.9	1664.6	1667.1	1675.6	1664.6
172.5°	1679.2	1671.9	1674.4	1682.9	1671.9
175°	1685.3	1676.8	1679.2	1687.7	1675.6
177.5°	1687.7	1679.2	1680.4	1689.0	1678.0
180°	1681.7	1681.7	1681.7	1681.7	1681.7

(END OF REPORT)